

A ZOOGEOGRAPHIC STUDY BASED ON THE PYRAMIDELLID MOLLUSKS OF THE WEST COAST OF AMERICA.

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INTRODUCTION.

In this paper I have considered all the available data relating to the distribution of the recent west American species of this family described in Bulletin 68 of the United States National Museum and the additional forms described in the supplemental paper published in these Proceedings, volume 42, page 261, 1912. There have also been included here notes on specimens from the west coast of America, which have been determined for various institutions and individuals since the publication of that monograph. The disposition of this material is mentioned under each reference in the present paper, and I may say here that I wish to extend grateful thanks to all correspondents and institutions mentioned in Bulletin 68 and in the supplemental paper, for it is almost entirely due to their cooperation that the present study has been made possible. I wish also to express my sincere appreciation and thanks to Dr. William H. Dall, honorary curator of the Division of Mollusks, for lending a patient ear to my troubles and giving kindly counsel during the years that I have been at work upon this group.

In the preparation of this manuscript a card was prepared for each species, on which has been noted the number of specimens examined, the locality from which they were obtained, depth in fathoms, bottom temperature, and disposition of material, the last subdivided into two columns, one citing the catalogue number, the other the collection in which the material occurs. It would have been desirable to add the salinity and the physiographic conditions of each station, but unfortunately few data are available on these points. I have noted them wherever they were to be had.

These specific cards fall readily into a series of zoogeographic divisions, which in turn can be easily grouped to correspond with the great provinces outlined by S. P. Woodward, *Manual of Mollusca*, London, 1851-1856, pages 355 and 372 to 377, and later more fully

discussed by Doctor Dall in *Fur Seals and Fur Seal Islands of the North Pacific*, part 3, 1899, page 539, and in the *Proceedings of the United States National Museum*, volume 37, 1909, pages 185 to 191.

I would however, on the basis of the present study, suggest a slight rearrangement of the subdivisions (faunal areas) which the larger provinces have been held to contain in the past, namely, I would retain five primary provinces, using for them the terms ARCTIC, NORTH TEMPERATE, TROPIC, SOUTH TEMPERATE, and ANTARCTIC.

In the first, the ARCTIC, I would include the ARCTIC in the restricted sense and the ALEUTIC of the present paper. These two correspond to the ARCTIC and BOREAL of the east Atlantic. In the ARCTIC in the restricted sense there are 4 species belonging 2 each to the subgenera *Evalea* and *Amaura*. In the ALEUTIC these two subgenera are found containing 15 out of the 19 species peculiar to it, the remainder comprising a single species of *Menestho*, 1 of *Strioturbonilla*, and 2 of *Pyrgolampros*, the last named subgenus being practically confined to the NORTH TEMPERATE province which harbors 23 out of the 26 species.

The NORTH TEMPERATE should embrace the OREGONIC and CALIFORNIC faunal areas which correspond to the CELTIC and LUSITANIAN of the east Atlantic. In this province there is as a leading feature the subgenus *Pyrgolampros*, only 1 species of which is known in the TROPIC province while 2 only are found in the ARCTIC. The subgenus *Mormula* is also quite characteristic; 2 out of 14 are found in the TROPIC, and none are known from the ARCTIC province. The subgenus *Ivara* is entirely confined to this province, and *Careliopsis* and *Salassia* are known from the Californic faunal area only. *Evalea* finds its greatest development here, being represented by 49 of the 64 species known from the entire west coast.

The TROPIC province should embrace the MAZATLANIC, the PANAMIC and GALAPAGANIC, corresponding to the WEST AFRICAN of the east Atlantic. In this we find the following subgenera peculiar to the region, *Pyramidella*, *Pharcidella*, *Asmunda*, *Lysacme*, *Salassia*, *Pyrgulina*, *Haldra*, and *Odostomia*. The rather large subgenus *Amaura* is entirely unrepresented and *Pyrgolampros* has but a single representative.

From the SOUTH TEMPERATE province, corresponding to the SOUTH AFRICAN of the east Atlantic, we have but 4 representatives, 3 of which belong to the subgenus *Pyrgiscus* which ranges over the NORTH TEMPERATE and also the TROPIC, and one of the subgenus *Menestho*, which has an equally extensive distribution.

The ANTARCTIC Pyramidellid fauna is unknown at present, but judging from the currents, one notes that 2 faunal areas are indicated in the ANTARCTIC province; one, the MAGELLANIC, corresponding to the ALEUTIC of the northern hemisphere covering the

region between Chiloe Island and the Strait of Magellan, the other, the ANTARCTIC, in the restricted sense, corresponding to the ARCTIC, in the restricted sense, of the northern hemisphere, covering the South Shetlands and the territory to the south of them.

The present study is the first actual tabulation of the distribution of a large family of mollusks which has been undertaken for the region under discussion and marks well the various subdivisions of the larger provinces into which the continental shelf fauna of the west coast of America is divided. (See map, Plate 40.)

They may be defined as follows:

(1) *ARCTIC*.

This extends from the summer limit south to the winter limit of the pack ice, i. e., from the Sea-Horse Islands south to Hagemeister Island. This region is characterized by 4 species belonging to 2 subgenera. (See first column of the summary.)

(2) *ALEUTIC*.

This embraces the Aleutian Islands, the Alaskan Peninsula, and the main coast of Alaska with their adjacent islands south of Sitka, and probably the inland straits south to Dixon Entrance. This region is characterized by 19 species belonging to 5 subgenera; two additional species are common to this and the next area. (See second column of summary.)

(3) *OREGONIC*.

This faunal area extends from Sitka, Alaska, south to Point Conception, California, and probably south on the outside of San Miguel, Santa Rosa, and San Nicholas, and San Clemente Islands. It is characterized by 70 species belonging to 14 subgenera. Eleven additional species extend over this and the next area. (See third column of summary.)

(4) *CALIFORNIC*.

This extends from Point Conception, California, south to Cape St. Lucas, Lower California. It is characterized by 164 species belonging to 27 subgenera. Two species are common to this and the next area. (See fourth column of summary.)

(5) *MAZATLANIC*.

This extends from Cape St. Lucas, south to Acajutla, Guatemala. It is characterized by 75 species belonging to 26 subgenera. No species are common to this and the next area. (See fifth column of summary.)

(6) *PANAMIC*.

This area extends from Acajutla south perhaps to Aguja Point, Peru. It is characterized by 46 species, belonging to 19 subgenera. (See sixth column of summary.)

(7) *GALAPAGANIC*.

The fauna of these islands, though small, is absolutely distinct and denotes a separate area. It consists of 5 species belonging to 5 subgenera. (See seventh column of summary.)

The Pyramidellid material from the west coast of South America south of Aguja Point, Peru, is exceedingly scant, too much so to permit of any definite mapping of faunal areas based upon this group alone, but if we apply the same factors which are found to hold in the northern hemisphere, we can say that one area (8) the Peruvic, extends from Point Aguja, Peru, south to Chiloe Island, Chile. Another (9), the Magellanic, extends from Chiloe Island to the Strait of Magellan, and a third (10), the Antarctic, probably covers the South Shetlands, extending from there southwards.

The faunal areas here listed show a remarkable coincidence with the ocean currents in the region under discussion, which demands consideration.

First of all, it should be borne in mind that probably all the members of this family are free swimming during their early stages, which would render them subject to being carried by the ocean currents. Their future success in life after passing the free-swimming stage would depend upon finding a suitable habitat for their subsequent existence—a habitat which would embrace all the necessary conditions of topography, temperature, salinity, and food supply. It seems quite reasonable to suppose, and the insufficient data at hand indicate, that the coasts washed by the great ocean currents have in the main a corresponding uniformity of temperature, salinity, and food supply (plankton), the chief factors in the environment of marine animals. It therefore seems most reasonable to assume that it is due to the domination of these factors by the currents that we find the parallelism or coextensiveness of ocean currents and the faunal areas.

In the North Pacific we have the Kuro Siwo or Japan current, which on reaching our coast splits, the north deflection sweeping the shores of Alaska and the Aleutian Islands, marking the Aleutic faunal area, while the south deflection sweeps southward along the coast of Washington, Oregon, and California, as far as Point Conception, where the greater part is deflected seaward, probably sweeping the outside of San Miguel, Santa Rosa, San Nicholas, and San Clemente Islands, thus outlining the Oregonic faunal area.

A weak continuation of the main current passes southward along the coast of California from Point Conception to Cape St. Lucas, Lower California, where it is deflected seaward, thus covering the faunal area designated as Californic.

The equatorial current strikes the Central American coast about Acajutla and passes northward into the Gulf of California, turning westward at Cape St. Lucas. This maps the Mazatlanic faunal area.

The region between Acajutla and Point Aguja, Peru, appears to be free from any large ocean currents and represents the Panamic faunal area.

The South Pacific or Peruvian current strikes the South American shores about Chiloe Island, Chile, a part being deflected northward along the shores to Point Aguja, Peru, where it is deflected toward the Galapagos Islands. This may be considered as marking the Peruvic faunal area, though little is known of its Pyramidellid fauna.

Another part is deflected southward and sweeps the coast of South America from Chiloe Island to the Strait of Magellan. This maps the Magellanic faunal area.

The South Shetland Islands and the territory to the south may be considered as embracing the Antarctic faunal area in the restricted sense.

GEOGRAPHIC TABLES.

These tables are based upon the specific cards, showing the geographic range of each species. A 0 is used to denote its presence in a faunal area; when a species extends over more than one faunal area, the 0 will appear in all the columns covered by its range. Subspecies are given the same rank as species in the plotting of these tables.

Geographic tables.

Species.	Northern extreme range.	Arctic.	Aleutic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Southern extreme range.
Gen. <i>PYRAMIDELLA</i> .										
Subg. <i>Pyramidella</i> .										
<i>bairdi</i>						0				
Subg. <i>Voluspa</i> .										
<i>auricoma</i>	Gulf Cal.					0				Mazatlan.
<i>cerrosana</i>					0					
Subg. <i>Longchaeus</i> .										
<i>adamsi</i>	Monterey.			0	0	0				Gulf Cal.
<i>bicolor</i>					0	0				
<i>metricana</i>	San Diego.									Lower Cal.
<i>conica</i>							0			
<i>mazatlanica</i>	San Diego.				0	0				Cape Tepoca.
Subg. <i>Pharcidella</i> .										
<i>hastata</i>						0				
<i>panamensis</i>							0			
<i>moiffati</i>							0			
<i>achates</i>	Gulf Cal.					0				Mazatlan.
Gen. <i>TURBONILLA</i> .										
Subg. <i>Turbonilla</i> .										
<i>gilli</i>	Catalina.				0					San Diego.
<i>g. delmontensis</i>				0						
<i>centrota</i>							0			
<i>ima</i>							0			
<i>diegensis</i>	San Pedro.				0					San Diego.
<i>acra</i>					0					
<i>lucana</i>						0				
<i>prolongata</i>						0				
Subg. <i>Chemnitzia</i> .										
<i>hypolispa</i>	Catalina Id.				0					San Diego.
<i>gabbiana</i>				0						
<i>aepynota</i>	San Pedro.				0					S. Martin Id.
<i>muricata</i>						0				

Geographic tables—Continued.

Species.	Northern extreme range.	Arctic.	Aleutic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Southern extreme range.
Gen. <i>TURBONILLA</i>—Con.										
Subg. <i>Chemnitzia</i>—Con.										
<i>santarosana</i>	S. Rosa I.....				0					San Diego.
<i>clarinda</i>					0					
<i>paramoca</i>							0			
<i>houscri</i>								0		
<i>aculeus</i>							0			
<i>muricatoides</i>				0						
<i>kelseyi</i>	Santa Barbara.....				0					San Ignacio.
<i>raymondi</i>	S. Rosa I.....				0					San Diego.
Subg. <i>Strioturbonilla</i>.										
<i>stephanogyra</i>							0			
<i>dinora</i>					0					
<i>panamensis</i>							0			
<i>bulloni</i>	S. Rosa I.....				0					Pt. Abrejos.
<i>vancouverensis</i>	Port Etches.....		0	0						Barkley Sd.
<i>asser</i>	Redondo.....				0					San Diego.
<i>mericana</i>						0				
<i>atirila</i>	Long Beach.....				0					San Diego.
<i>encella</i>					0					
<i>nicholsi</i>						0				
<i>bakeri</i>					0					
<i>torquata</i>	Pt. Fermin.....				0					San Diego.
<i>stylina</i>	Monterey.....			0	0					Coronado Id.
<i>calvini</i>						0				
<i>carpenteri</i>					0					
<i>simpsoni</i>	Redondo.....				0					San Diego.
<i>profundicola</i>	Catalina Id.....				0					La Jolla.
<i>galianoi</i>	Pacific Beach.....				0					Cape St. Lucas.
<i>humerosa</i>	Catalina Id.....				0					San Diego.
<i>c-b-adamsi</i>						0				
<i>serrae</i>	Barkley S.....			0						Monterey.
<i>dracona</i>					0					
<i>arcta</i>	S. Rosa I.....				0					San Diego.
<i>panaza</i>	Ceralvo I.....					0				Lower Cal.
<i>gala-pagensis</i>								0		
<i>undata</i>						0				
<i>affinis</i>							0			
<i>phanea</i>						0				
<i>imperialis</i>							0			
<i>smithsoni</i>							0			
<i>gracilior</i>								0		
<i>cookeana</i>						0				
Subg. <i>Ptycheulimella</i>.										
<i>obsoleta</i>						0				
<i>abreojensis</i>						0				
Subg. <i>Pyrgolampros</i>.										
<i>victoriana</i>	Departure B.....			0						Victoria.
<i>gibbosa</i>						0				
<i>ridgwayi</i>					0					
<i>valdezi</i>	Barkley S.....			0						Monterey.
<i>newcombei</i>	Port Simpson.....			0						Victoria.
<i>taylori</i>	Port Simpson.....			0						Barkley Sd.
<i>talama</i>				0						
<i>lowei</i>	San Pedro.....				0					San Diego.
<i>halibrecla</i>					0					
<i>gouldi</i>	S. Rosa I.....				0					San Diego.
<i>aurantia</i>	Departure B.....			0						Puget Sd.
<i>pedroana</i>	San Pedro.....				0					Pt. Loma Lt.
<i>halia</i>	San Pedro.....				0					San Diego.
<i>lyalli</i>				0						
<i>berryi</i>	Santa Cruz.....			0	0					Catalina Id.
<i>alaskana</i>	Port Althorp.....		0	0						Sitka Harbor.
<i>chocolata</i>					0					
<i>gloriosa</i>					0					
<i>painei</i>	Redondo.....				0					San Diego.
<i>macouni</i>					0					
<i>keepi</i>	Long Beach.....				0					Catalina Id.
<i>halistrepia</i>					0					
<i>pesa</i>					0					
<i>rinella</i>					0					
<i>lituyana</i>			0							
<i>oregonensis</i>	Washington.....			0						

Geographic tables—Continued.

Species.	Northern extreme range.	Arctic.	Aleutic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Southern extreme range.
Gen. <i>TURBONILLA</i> —Con.										
Subg. <i>Pyrgiscus</i> .										
<i>annellac</i>									0	
<i>gracillima</i>						0				
<i>vezativa</i>	San Pedro.....				0					Pt. Loma.
<i>obesa</i>					0					
<i>favilla</i>							0			
<i>pequensis</i>					0					
<i>nuttongi</i>	San Pedro.....				0					San Diego.
<i>callia</i>					0					
<i>superba</i>						0				
<i>pluto</i>					0					
<i>jewetti</i>	San Pedro.....				0					Lower Cal.
<i>signae</i>					0					
<i>striosa</i>							0			
<i>morchi</i>	Redondo.....				0					San Diego.
<i>aragoni</i>				0						
<i>recta</i>	San Diego.....				0					Pt. Abreojos.
<i>weldi</i>					0					
<i>nercia</i>	San Pedro.....				0					San Diego.
<i>antestriata</i>	Esteros B.....				0					Zuniga.
<i>antemunda</i>	S. Rosa I.....				0					Catalina Id.
<i>florescens</i>						0				
<i>macbridei</i>						0				
<i>macra</i>					0					
<i>nuttalli</i>									0	
<i>angusta</i>	C. San Lucas.....					0				
<i>tenuicula</i>	Monterey.....			0	0					Pt. Abreojos.
<i>callimene</i>					0					
<i>virgo</i>					0					
<i>marshalli</i>						0				
<i>canfieldi</i>				0						
<i>almo</i>					0					
<i>callipeplum</i>							0			
<i>dina</i>							0			
<i>shimeki</i>								0		
<i>sanctorum</i>						0				
<i>eucosmobasis</i>	S. Luis Obispo.....				0					San Diego.
<i>halidoma</i>						0				
<i>auricoma</i>	San Pedro.....				0					Scammon Lagoon.
<i>castanea</i>	San Pedro.....				0					San Diego.
<i>castanella</i>				0						
<i>grippi</i>					0					
<i>indentata</i>						0				
<i>cora</i>									0	
<i>craticulata</i>							0			
<i>cervata</i>						0				
<i>lepta</i>						0				
<i>histias</i>						0				
<i>subula</i>							0			
<i>wickhami</i>					0					
<i>lara</i>						0				
<i>cinctella</i>							0			
<i>adusta</i>					0					
<i>larunda</i>						0				
Subg. <i>Mormula</i> .										
<i>lordi</i>	Sitka Harbor.....			0						Pt. Orchard.
<i>regina</i>	S. Rosa I.....				0					Catalina Id.
<i>catalinensis</i>					0					
<i>cschscholtzi</i>	Port Simpson.....			0						Barkley Id.
<i>tridentata</i>	Monterey.....			0						San Diego.
<i>ambusta</i>					0					
<i>scammonensis</i>					0					
<i>major</i>							0			
<i>santosana</i>					0					
<i>pentalopa</i>	San Pedro.....				0					Todos Santos.
<i>heterolopha</i>	Ocean Beach.....				0					San Hipolito Pt.
<i>ignacia</i>					0					
<i>periscelida</i>					0					
<i>phalera</i>							0			
Subg. <i>Dunkeria</i> .										
<i>sedillina</i>						0				
<i>laminata</i>	San Pedro.....				0					Pt. Abreojos.
<i>hipolitensis</i>					0					

Geographic tables—Continued.

Species.	Northern extreme range.	Arctic.	Aleutic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Southern extreme range.
Gen. <i>TURBONILLA</i> —Con.										
Subg. <i>Dunkeria</i> —Continued.										
<i>excolpa</i>						0				
<i>subangulata</i>						0				
<i>andrewsi</i>							0			
<i>arata</i>					0					
<i>genilda</i>							0			
Subg. <i>Pyrgisculus</i> .										
<i>monilifera</i>						0				
<i>cancellata</i>						0				
<i>festiva</i>							0			
<i>cucosmia</i>						0				
<i>swani</i>					0					
<i>paucilirata</i>						0				
Subg. <i>Asmunda</i> .										
<i>turrita</i>							0			
Subg. <i>Carliopsis</i> .										
<i>stenogyra</i>					0					
Gen. <i>ODOSTOMIA</i> .										
Subg. <i>Lysacme</i> .										
<i>clausiliformis</i>						0				
Subg. <i>Salassicella</i> .										
<i>laza</i>	Pacific Beach.				0					Scammon Lagoon.
<i>richi</i>					0					
Subg. <i>Salassia</i> .										
<i>tropidita</i>							0			
<i>scalariformis</i>						0				
Subg. <i>Bcsia</i> .										
<i>convera</i>	Cacachitas.					0				Mazatlan.
<i>excolpa</i>						0				
<i>callimorpha</i>					0					
Subg. <i>Chrysallida</i> .										
<i>heterocincta</i>					0					
<i>reigeni</i>						0				
<i>inconspicua</i>							0			
<i>telescopium</i>						0				
<i>exelsa</i>							0			
<i>acrybia</i>					0					
<i>communis</i>							0			
<i>torrita</i>						0				
<i>licina</i>					0					
<i>talama</i>					0					
<i>effusa</i>	Mazatlan.					0				C. St. Lucas.
<i>paupercula</i>							0			
<i>clathratula</i>							0			
<i>ritteri</i>	Catalina I.				0					San Diego.
<i>rinella</i>							0			
<i>cugena</i>	San Pedro.				0					San Hipolito Pt.
<i>trachis</i>					0					
<i>lucca</i>	Monterey.			0						San Diego.
<i>clementina</i>					0					
<i>oomisca</i>						0				
<i>oldroydi</i>	San Pedro.				0					Los Coronados I.
<i>nodosa</i>						0				
<i>ovata</i>						0				
<i>cincta</i>	San Pedro.				0					Pacific Beach.
<i>loomisi</i>							0			
<i>vicola</i>					0					
<i>astricta</i>				0						
<i>cooperi</i>				0						
<i>hipolitensis</i>					0					

Geographic tables—Continued.

Species.	Northern extreme range.	Arctic.	Aleutic.	Oregonic.	Californic.	Macathanic.	Panamic.	Galapaganc.	Peruvic.	Southern extreme range.
Gen. <i>ODOSTOMIA</i> —Con.										
Subg. <i>Chrysallida</i> —Con.										
<i>lapazana</i>						0				
<i>proxima</i>							0			
<i>tyleri</i>							0			
<i>scammonensis</i>	Scammon Lag.				0					Pt. Abreojos.
<i>pulchra</i>							0			
<i>montereyensis</i>	Del Monte.			0	0					San Luis Obispo B.
<i>pulcra</i>	Monterey			0	0					San Pedro.
<i>virginialis</i>	San Pedro.				0					Pt. Abreojos.
<i>defolinia</i>							0			
<i>d. contracta</i>							0			
<i>d. difficilis</i>							0			
<i>oregonensis</i>	Q. Charlotte I.			0						Monterey.
<i>benthina</i>						0				
<i>promeces</i>						0				
<i>pulcherrima</i>	San Pedro.					0				San Diego.
<i>vineta</i>						0				
<i>fasciata</i>						0				
<i>helga</i>	San Pedro.					0				Coronado Id.
<i>dicella</i>						0				
<i>thalia</i>						0				
<i>sanctorum</i>	Todos Santos B.					0				San Hipolito Pt.
<i>sapia</i>						0				
<i>rofundata</i>						0				
<i>deceptrix</i>	S. Hipolito Pt					0				Pt. Abreojos.
Subg. <i>Pyrgulina</i> .										
<i>marginata</i>							0			
Subg. <i>Egila</i> .										
<i>lacunata</i>						0				
<i>poppoi</i>						0				
Subg. <i>Haldra</i> .										
<i>photis</i>						0				
Subg. <i>Iridella</i> .										
<i>pedroana</i>	San Pedro.				0					Scammon Lagoon.
<i>navisa</i>	San Pedro.				0					Scammon Lagoon.
<i>n. delmontensis</i>				0						
<i>quinguecineta</i>						0				
<i>orariana</i>							0			
Subg. <i>Miralda</i> .										
<i>hemphilli</i>	San Pedro.				0					Pt. Abreojos.
<i>armata</i>						0				
<i>exarata</i>						0				
<i>terebellum</i>							0			
<i>aepynota</i>	San Pedro.				0					Cape St. Lucas.
<i>galapagensis</i>								0		
Subg. <i>Ivara</i> .										
<i>turricula</i>	Monterey			0	0					Pt. Abreojos.
Subg. <i>Evalina</i> .										
<i>americana</i>	San Pedro.				0					Coronado Id.
<i>intermedia</i>						0				
Subg. <i>Iolaea</i> .										
<i>amianta</i>	Monterey B.			0	0					Pt. Abreojos.
<i>cucosmia</i>	San Pedro.				0					Pt. Abreojos.
<i>delicatula</i>						0				
Subg. <i>Menestho</i> .										
<i>grammatospira</i>						0				
<i>pharacida</i>				0	0					
<i>æara</i>				0	0					

Geographic tables—Continued.

Species.	Northern extreme range.	Arctic.	Aleutic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Southern extreme range.
Gen. <i>ODOSTOMIA</i> —Con.										
Subg. <i>Menestho</i> —Continued.										
<i>ziziphina</i>						0				
<i>recta</i>							0			
<i>gloriosa</i>	San Diego.....				0					San Hipolito Pt.
<i>anilda</i>	San Diego.....				0					Round Island.
<i>callipyrga</i>							0			
<i>ereisa</i>					0					
<i>farma</i>					0					
<i>enora</i>					0					
<i>chilensis</i>									0	
<i>fetella</i>	Long Beach.....				0					San Ignacio Lag.
<i>hypocurta</i>			0							
<i>acquisculpta</i>						0				
<i>harfordensis</i>				0						
<i>sublirulata</i>						0				
Subg. <i>Euteca</i> .										
<i>nunivakensis</i>		0								
<i>killisnoocensis</i>			0							
<i>youngi</i>				0						
<i>thea</i>					0					
<i>calliope</i>					0					
<i>calcarella</i>					0					
<i>tillamookensis</i>				0						
<i>esilda</i>					0					
<i>spreadboroughi</i>				0						
<i>vancouverensis</i>				0						
<i>aleutica</i>	Bering Sea.....		0							Amaknak Id.
<i>kadiakensis</i>			0							
<i>quadrac</i>				0						
<i>callimene</i>					0					
<i>herilda</i>					0					
<i>cypria</i>				0						
<i>hypatia</i>				0						
<i>tenuis</i>						0				
<i>valdezi</i>	Barkley S.			0						Del Monte.
<i>nemo</i>	San Pedro.....				0					San Diego.
<i>io</i>	S. Barbara.....				0					San Diego.
<i>barkleyensis</i>				0						
<i>pratoma</i>					0					
<i>cookeana</i>				0						
<i>septentrionalis</i>										
<i>capitana</i>	Kadiak I.....		0							Unalaska.
<i>jewetti</i>				0						
<i>inflata</i>				0						
<i>columbiana</i>	Vancouver I.....			0						Port Townsend.
<i>unalaskensis</i>			0							
<i>atossa</i>					0					
<i>obesa</i>					0					
<i>lucasana</i>						0				
<i>phanea</i>					0					
<i>phanella</i>	San Pedro.....				0					San Diego.
<i>santarosana</i>					0					
<i>tenuisculpta</i>	Barkley S.			0	0					Lower Cal.
<i>angularis</i>	Sitka Harbor.....			0						California.
<i>socorroensis</i>						0				
<i>baldridgae</i>					0					
<i>donilla</i>	San Pedro.....				0					Todos Santos Bay.
<i>californica</i>	Ocean Beach.....				0					S. Coronado I.
<i>serilla</i>	San Pedro.....				0					San Diego.
<i>tacomacensis</i>				0						
<i>amchitkana</i>	Ellamar.....		0	0						Amchitka Id.
<i>stephensi</i>	Baranof I.....			0						Barkley Id.
<i>clessini</i>	Admiralty I.....			0						Sitka.
<i>minutissima</i>	San Diego.....				0					Pt. Abrejos.
<i>raymondi</i>					0					
<i>gravida</i>					0					
<i>notilla</i>					0					
<i>movilla</i>					0					
<i>altina</i>					0					
<i>profundicola</i>					0					
<i>baranoffensis</i>	Admiralty I.....			0						Baranof Id.
<i>sitkaensis</i>			0							
<i>hagemeisteri</i>		0								
<i>skidgatensis</i>				0						

Geographic tables—Continued.

Species.	Northern extreme range.	Arctic.	Alentic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Southern extreme range.
Gen. <i>ODOSTOMIA</i> —Con.										
Subg. <i>Evalea</i> —Continued.										
<i>resina</i>					0					Monterey.
<i>deliciosa</i>	Barkley S.			0						
<i>parella</i>								0		
<i>granadensis</i>							0			
<i>palmeri</i>						0				
<i>cassandra</i>				0						
Subg. <i>Amaura</i> .										
<i>lastra</i>	S. Catalina.				0					Southern Cal. Pt. Pinos Lt.
<i>kennereleyi</i>	Nanaimo.			0						
<i>elsa</i>		0	0							
<i>heringi</i>					0					
<i>subglobosa</i>					0					
<i>satura</i>				0						
<i>helena</i>					0					
<i>grippiana</i>				0						
<i>farallonensis</i>					0					
<i>sillana</i>			0							
<i>talpa</i>	Mole Harbor.			0						Sitka
<i>krausci</i>			0							
<i>eldorana</i>			0							
<i>oreia</i>	S. Rosa I.				0					San Diego.
<i>gouldi</i>				0						
<i>arctica</i>	Arctic O.	0	0							Bristol Bay.
<i>arellana</i>				0						
<i>moratora</i>				0						
<i>peca</i>			0							
<i>nota</i>	S. Rosa I.				0					San Diego.
<i>iliuliukensis</i>			0							
<i>nuciformis</i>				0						
<i>canfieldi</i>	Barkley S.			0	0					San Diego. Todos Santos B.
<i>subturrita</i>	S. Rosa I.				0					
<i>martensi</i>			0							
Subg. <i>Scalenostoma</i> .										
<i>dotella</i>						0				
<i>babylonia</i>					0					
<i>rangii</i>							0			
Subg. <i>Hecida</i> .										
<i>kelseyi</i>					0					
<i>panamensis</i>							0			
Subg. <i>Odostomia</i> .										
<i>farella</i>					0					
<i>dinella</i>					0					
<i>coronadoensis</i>					0					
<i>mammillata</i>						0				

Geographic tables—Continued.

SUMMARY.

Genera and subgenera.	Arctic.	Aleutic.	Oregonic.	Californic.	Mazatlanic.	Panamic.	Galapaganic.	Peruvic.	Total number of species of each subgenus.				
Gen. <i>PYRAMIDELLA</i> .													
<i>Pyramidella</i>					1				1				
<i>Voluspa</i>				1	1				2				
<i>Longchaeus</i>			1	1	3	2	3		5				
<i>Pharacidella</i>					3		1		4				
Total.....									12				
Gen. <i>TURBONILLA</i> .													
<i>Turbonilla</i>			1	3	2	2			8				
<i>Chemnitzia</i>			2	6	1	2	1		12				
<i>Strioturbonilla</i>		1	1	3	1	15	9	5	32				
<i>Ptychculimella</i>				1	1				2				
<i>Pyrgolampros</i>		2	12	1	12	1			26				
<i>Purgiscus</i>			4	1	25	14	7	1	53				
<i>Mormula</i>			3	1	10		2		14				
<i>Dunkeria</i>				3	3	2			8				
<i>Pyrgiscutus</i>				1	4	1			6				
<i>Asmunda</i>						1			1				
<i>Careliopsis</i>				1					1				
Total.....									163				
Gen. <i>ODOSTOMIA</i> .													
<i>Lysacme</i>					1				1				
<i>Salassiaella</i>				2					2				
<i>Salassia</i>					1	1			2				
<i>Besla</i>					2				3				
<i>Chrysallida</i>			6	2	25	11	13		53				
<i>Pyrgulina</i>						1			1				
<i>Egila</i>				1	1				2				
<i>Haldra</i>					1				1				
<i>Iridella</i>			1	2	1	1			5				
<i>Miradella</i>				2	2	1	1		6				
<i>Ivara</i>			1	1	1				1				
<i>Evalina</i>				1	1				2				
<i>Iolaea</i>			1	1	2	1			3				
<i>Menestho</i>		1	3	1	6	4	2	1	17				
<i>Evalca</i>	2	1	8	1	23	1	27		64				
<i>Amaura</i>	2	1	7	9	1	8			25				
<i>Scalenostoma</i>				1	1	1			3				
<i>Heida</i>				1		1			2				
<i>Odostomia</i>				3	1				4				
Total.....									197				
Grand total.....	4	*2	19	*2	70	*11	164	*2	75	46	5	4	372

* The numbers placed on the lines dividing the faunal columns indicate the number of species common to two adjacent areas.

DISTRIBUTION OF SPECIES.

In this list I have cited under each species all the available information in the following sequence: Locality from which the material was obtained including station number, depth in fathoms, character of bottom, bottom temperature, salinity, number of specimens, and disposition of material examined.

PYRAMIDELLA (PYRAMIDELLA) BAIRDI Dall and Bartsch.

Gulf of California: 1 specimen, type. Cat. No. 73932, U.S.N.M.

PYRAMIDELLA (VOLUSPA) AURICOMA Dall.

Gulf of California: 3 specimens (1=type). Cat. No. 32268, U.S.N.M.

Mazatlan, Mexico: 1 specimen. Cat. No. 168681, U.S.N.M.

PYRAMIDELLA (VOLUSPA) CERROSANA Dall and Bartsch.

Cerro's Island, Lower California: 1 specimen, type. Cat. No. 6332, U.S.N.M.

PYRAMIDELLA (LONGCHAEUS) ADAMSI Carpenter.

Monterey, Cal.: 1 specimen. Cat. No. 206854, U.S.N.M.

Off Santa Rosa Island, Cal.: U.S.B.F. station 2901, 48 fathoms, gray sand and mud bottom. Bottom temperature 55.1°. 1 specimen. Cat. No. 194465, U.S.N.M.

San Diego, Cal.: 1 specimen. Cat. No. 56764, U.S.N.M.

7 specimens. Cat. No. 46469, U.S.N.M.

1 specimen. Cat. No. 109367, U.S.N.M.

3 specimens. Kelsey collection. 4 fathoms.

Scammon Lagoon, Lower California: 2 specimens. Kelsey collection.

3 specimens. Cat. No. 105558, U.S.N.M.

La Paz, Lower California: 1 specimen. Cat. No. 34171, U.S.N.M.

1 specimen. Cat. No. 11866, U.S.N.M.

Gulf of California: 2 specimens. Cat. No. 46468, U.S.N.M.

PYRAMIDELLA (LONGCHAEUS) BICOLOR Menke.

Guacamayo, Mexico: 1 specimen. Cat. No. 13522, U.S.N.M.

PYRAMIDELLA (LONGCHAEUS) MEXICANA Dall and Bartsch.

San Diego, Cal.: 1 specimen. Cat. No. 56764, U.S.N.M.

Scammon Lagoon, Lower California: 1 specimen, type. Cat. No. 105558, U.S.N.M.

PYRAMIDELLA (LONGCHAEUS) CONICA C. B. Adams.

Panama Bay: 1 specimen, type. Amherst College collection.

PYRAMIDELLA (LONGCHAEUS) MAZATLANICA Dall and Bartsch.

San Diego, Cal.: 2 specimens. Cat. No. 46477, U.S.N.M.

Off San Diego, Cal.: U.S.B.F. station 3566, 3 fathoms, fine sand and black shell bottom. 1 specimen. Cat. No. 206855, U.S.N.M.

Gulf of California: 1 specimen. Cat. No. 46468, U.S.N.M.

Off Cape Tepoca, Mexico: U.S.B.F. station 3019, 14 fathoms, black sand and broken shell bottom, bottom temperature 66°. 1 specimen, type. Cat. No. 162714, U.S.N.M.

PYRAMIDELLA (PHARCIDELLA) HASTATA A. Adams.

Acapulco, Mexico: 3 specimens (1 figured). Cat. No. 59321, U.S.N.M.

(?) 2 specimens. Zoological Museum of Berlin.

PYRAMIDELLA (PHARCIDELLA) PANAMENSIS Dall and Bartsch.

Panama Bay: U.S.B.F. station 2805, 51.5 fathoms, green mud bottom. 2 specimens (1=type). Cat. No. 122792, U.S.N.M.

PYRAMIDELLA (PHARCIDELLA) MOFFATI Dall and Bartsch.

Japan (?): 1 specimen. Paetel collection, Berlin Museum.

Acapulco, Mexico: 1 specimen, type. ? collection.

PYRAMIDELLA (PHARCIDELLA) ACHATES Gould.

Gulf of Mexico: 1 specimen, type. Cat. No. 43 (288-A.3111), State Museum, N. Y.

Mazatlan, Mexico: 1 specimen. Cat. No. 57870, Acad. Nat. Sci. Philadelphia, Pa.

TURBONILLA (TURBONILLA) GILLI Dall and Bartsch.

Off Catalina Island, Cal.: Univ. of Cal. station 30. 1 specimen. Univ. of Cal. collection.

San Diego, Cal.: Univ. of Cal. station 47. 3 specimens. Univ. of Cal. collection.
2 specimens (1=type). Cat. No. 163009, U.S.N.M.**TURBONILLA (TURBONILLA) GILLI DELMONTENSIS** Dall and Bartsch.

Del Monte, Monterey, Cal.: 1 specimen, type. 12 fathoms. Cat. No. 195921, U.S.N.M.

TURBONILLA (TURBONILLA) CENTROTA Dall and Bartsch.

Panama: 1 specimen, type. Cat. No. 219, Amherst College.

TURBONILLA (TURBONILLA) IMA Dall and Bartsch.

Gulf of Panama: U. S. B. F. station 3392, 12-70 fathoms, hard bottom, bottom temperature, 36.4°. 1 specimen, type. Cat. No. 123025, U.S.N.M.

TURBONILLA (TURBONILLA) DIEGENSIS Dall and Bartsch.

San Pedro, Cal.: 17 specimens. Cat. No. 163217, U.S.N.M.

20 specimens. Oldroyd collection.

San Diego, Cal.: 1 specimen, type. Cat. No. 130316, U.S.N.M.

2 specimens. Cat. No. 10916, U.S.N.M.

7 specimens. Cat. No. 195334, U.S.N.M.

22 specimens. Baker collection.

2 specimens. 12-30 fathoms. Baker collection.

Off San Diego, Cal.: 3 specimens. Univ. of Cal. collection.

TURBONILLA (TURBONILLA) ACRA Dall and Bartsch.

Off Catalina Island, Cal.: 1 specimen, type. Cat. No. 206848, U.S.N.M.

TURBONILLA (TURBONILLA) PROLONGATA Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 1995, Liverpool collection, British Museum.

TURBONILLA (TURBONILLA) LUCANA Dall and Bartsch.

Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 4103, U.S.N.M.

TURBONILLA (CHEMNITZIA) HYPOLISPA Dall and Bartsch.

Off Catalina Island, Cal.: Univ. of Cal. station 32. 1 specimen. Cat. No. 205940, U.S.N.M.

San Diego, Cal.: 1 specimen. Univ. of Cal. collection.

1 specimen. 12-30 fathoms. Baker collection.

Off San Diego, Cal.: Univ. of Cal. stations 47 and 73. 2 specimens. Univ. of Cal. collection.

Univ. of Cal. station 43. 2 specimens, cotypes. Cat. No. 206851, U.S.N.M.

Univ. of Cal. station 43. 1 specimen. Cat. No. 206852, U.S.N.M.

TURBONILLA (CHEMNITZIA?) GABBIANA Cooper.

Habitat, Monterey, Cal.: 1 specimen. California Geological Survey.

TURBONILLA (CHEMNITZIA) AEPYNOTA Dall and Bartsch.

San Pedro, Cal.: 3 specimens. Cat. No. 163242, U.S.N.M.

Off San Martin Island, Lower California: 1 specimen, type. 30 fathoms. Cat. No. 162443, U.S.N.M.

San Diego, Cal.: 1 specimen. Gripp collection.

Outside of kelp, off San Diego Harbor, Cal.: 1 specimen. 16-20 fathoms. Gripp collection.

TURBONILLA (CHEMNITZIA) MURICATA Carpenter.

Mazatlan, Mexico: 2 specimens (1=type). Tablet 1993, Liverpool collection, British Museum.

TURBONILLA (CHEMNITZIA) SANTAROSANA Dall and Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2902, 53 fathoms, fine gray sand and mud bottom, bottom temperature, 45°. 6 specimens (1=type). Cat. No. 163239, U.S.N.M.

U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom, bottom temperature 55.1°. 6 specimens. Cat. No. 163240, U.S.N.M.

Off Newport, Cal.: Univ. of Cal. station 19. 1 specimen. Univ. of Cal. collection.

Off San Diego, Cal.: Univ. of Cal. station 81. 4 specimens. Univ. of Cal. collection.

TURBONILLA (CHEMNITZIA) CLARINDA Bartsch.

San Diego Bay, Cal.: 3 specimens (1=type). 12-30 fathoms. Cat. No. 211546, U.S.N.M.

5 specimens. 12-30 fathoms. Kelsey collection.

TURBONILLA (CHEMNITZIA) PARAMOEIA Dall and Bartsch.

Panama: 1 specimen, type. Amherst College collection.

TURBONILLA (CHEMNITZIA) HOUSERI Dall and Bartsch.

Off Galapagos Islands, South America: U. S. B. F. station 2813, 40 fathoms, coral and sand bottom. 2 specimens, cotypes. Cat. No. 206853, U.S.N.M.

TURBONILLA (CHEMNITZIA) ACULEUS C. B. Adams.

Panama: 2 specimens. Amherst College collection.

TURBONILLA (CHEMNITZIA) MURICATOIDES Dall and Bartsch.

Monterey, Cal.: 1 specimen, type. Cat. No. 195942, U.S.N.M.

1 specimen. Cat. No. 160488, U.S.N.M.

TURBONILLA (CHEMNITZIA) KELSEYI Dall and Bartsch.

Santa Barbara, Cal.: 3 specimens. Cat. No. 56789, U.S.N.M.

San Pedro, Cal.: 22 specimens. Cat. No. 152197, U.S.N.M.

Pacific Beach, San Diego, Cal.: 1 specimen. Cat. No. 162435, U.S.N.M.

Ocean Beach, San Diego, Cal.: 2 specimens. 10 fathoms. Cat. No. 152314, U.S.N.M.

San Diego, Cal.: 2 specimens. Cat. No. 60916, U.S.N.M.

1 specimen, type. Cat. No. 46506, U.S.N.M.

5 specimens. 12-30 fathoms. Baker collection.

28 specimens. Kelsey collection.

4 specimens. Gripp collection.

Outside of kelp, off San Diego Harbor, Cal.: 4 specimens. 16-20 fathoms. Gripp collection.

Todos Santos Bay, Cal.: 2 specimens. Cat. No. 46503, U.S.N.M.

Point Abrejos, Lower Cal.: 2 specimens. Cat. No. 106513, U.S.N.M.

San Ignacio, Lower Cal.: 1 specimen. Cat. No. 162432, U.S.N.M.

TURBONILLA (CHEMNITZIA) RAYMONDI Dall and Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom, bottom temperature 55.1°. 1 specimen. Cat. No. 163252a, U.S.N.M.

White's Point, San Pedro, Cal.: 9 specimens. Oldroyd collection.

Off Catalina Island, Cal.: 1 specimen, type. Cat. No. 206849, U.S.N.M.

1 specimen. Univ. of Cal. collection.

San Diego, Cal.: 1 specimen. Cat. No. 206850, U.S.N.M.

2 specimens. 12-30 fathoms. Baker collection.

Off San Diego, Cal.: 4 specimens. Univ. of Cal. collection.

TURBONILLA (STRIOTURBONILLA) STEPHANOgyRA Dall and Bartsch.

Panama Bay: U. S. B. F. station 2799, 29½ fathoms, green mud bottom. 1 specimen, type. Cat. No. 162440, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) DINORA Bartsch.

San Diego Bay, Cal.: 1 specimen, type. Cat. No. 211553, U.S.N.M.

San Diego, Cal.: 1 specimen. Gripp collection.

TURBONILLA (STRIOTURBONILLA) PANAMENSIS C. B. Adams.

Panama: 6 specimens. Amherst College collection.

TURBONILLA (STRIOTURBONILLA) BUTTONI Dall and Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom, bottom temperature 55.1°.

1 specimen. Cat. No. 163246, U.S.N.M.

2 specimens. Cat. No. 56867, U.S.N.M.

San Pedro, Cal.: 2 specimens. Cat. No. 205938, U.S.N.M.
 12 specimens. Cat. No. 205939, U.S.N.M.
 5 specimens. Cat. No. 203245a, U.S.N.M.
 10 specimens (1=type). Cat. No. 163241, U.S.N.M.
 1 specimen. Baldrige collection.
 2 specimens. Berry collection.
 65 specimens. Oldroyd collection.
 (White's Point) 4 specimens. Oldroyd collection.

Laguna Beach, Cal.: 3 specimens. Ball collection.

Catalina Island, Cal.: 1 specimen. Cat. No. 162436, U.S.N.M.

Ocean Beach, Cal.: 1 specimen. Kelsey collection.

San Diego, Cal.: 2 specimens. Cat. No. 160491, U.S.N.M.

1 specimen. Cat. No. 152314a, U.S.N.M.

2 specimens. Arnold collection.

2 specimens. Baker collection.

1 specimen. Kelsey collection.

Todos Santos Bay, Lower Cal.: 2 specimens. Cat. No. 56358, U.S.N.M.

3 specimens. Cat. No. 46503, U.S.N.M.

San Martin Island, Lower Cal.: 5 specimens. Baker collection.

5 specimens. Kelsey collection.

Point Abreojos, Lower Cal.: 3 specimens. Cat. No. 106513, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) VANCOUVERENSIS Baird.

Kadiak Island, Alaska: 2 specimens. 13 fathoms. Cat. No. 169489, U.S.N.M.

Port Etches, Alaska: 1 specimen. Cat. No. 160993, U.S.N.M.

Lituya Bay, Alaska: 1 specimen. 8 fathoms. Cat. No. 160490, U.S.N.M.

Port Simpson, British Columbia: 3 specimens. Cat. No. 196183, U.S.N.M.

11 specimens. Taylor collection.

West of Rose Spit, Dixon Entrance, Queen Charlotte Islands, British Columbia: 2 specimens. Taylor collection.

Alert Bay, British Columbia: 1 specimen. Taylor collection.

Carter Bay, British Columbia: 1 specimen. Cat. No. 196184, U.S.N.M.

1 specimen. Taylor collection.

Departure Bay, British Columbia: 20 specimens. Taylor collection.

5 specimens. Cat. No. 196185, U.S.N.M.

Victoria, Vancouver Island, British Columbia: 4 specimens. Cat. No. 126670, U.S.N.M.

Barkley Sound, British Columbia: 32 specimens. Cat. No. 211567, U.S.N.M.

33 specimens. Can. Geol. Surv. collection.

TURBONILLA (STRIOTURBONILLA) ASSER Dall and Bartsch.

Redondo, Cal.: 2 specimens (1=type). Cat. No. 205932, U.S.N.M.

San Pedro, Cal.: 2 specimens. Cat. No. 205933, U.S.N.M.

2 specimens. Cat. No. 163244, U.S.N.M.

1 specimen. Oldroyd collection.

San Diego, Cal.: 1 specimen. 12-30 fathoms. Baker collection.

(Sandspit.) 1 specimen. Cook collection.

2 specimens. Gripp collection.

Outside of kelp, off San Diego Harbor, Cal.: 2 specimens. 16-20 fathoms. Gripp collection.

TURBONILLA (STRIOTURBONILLA) MEXICANA Dall and Bartsch.

Off Lower California: U.S.B.F. station 2830, 66 fathoms, fine sand bottom; bottom temperature 74.1°. 4 specimens (1=type). Cat. No. 162515, U.S.N.M.

U.S.B.F. station 2830, 66 fathoms, fine sand bottom; bottom temperature 74.1°. 5 specimens. Cat. No. 96561, U.S.N.M.

Off La Paz, Lower California: U.S.B.F. station 2823, 26½ fathoms, broken shell bottom. 4 specimens. Cat. No. 163253, U.S.N.M.

U.S.B.F. station 2826, 9½ fathoms, shell bottom. 1 specimen. Cat. No. 191556, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) ATTRITA Dall and Bartsch.

Long Beach, Cal.: 1 specimen. Berry collection.

San Pedro, Cal.: 7 specimens (1=type). Cat. No. 163248, U.S.N.M.

5 specimens. Cat. No. 163243, U.S.N.M.

8 specimens. Oldroyd collection.

2 specimens. Oldroyd collection.

Off Point Loma, Cal.: 2 specimens. 5-8 fathoms. Baker collection.

San Diego, Cal.: 1 specimen. Cat. No. 152314, U.S.N.M.

2 specimens. Oldroyd collection.

Off Hotel. 1 specimen. 35 fathoms. Baker collection.

12 specimens. Kelsey collection.

San Diego Bay, Cal.: 5 specimens. Baker collection.

TURBONILLA (STRIOTURBONILLA) ENCELLA Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 211547, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) NICHOLSI Dall and Bartsch.

Gulf of California: 1 specimen, type. Cat. No. 160210, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) BAKERI Bartsch.

San Diego Bay, Cal.: 1 specimen, type. Cat. No. 211549, U.S.N.M.

1 specimen. Baker collection.

TURBONILLA (STRIOTURBONILLA) TORQUATA Gould.

Point Fermin, Cal.: 1 specimen, figured. Cat. No. 205934, U.S.N.M.

Catalina Island, Cal.: 2 specimens. 40 fathoms. Berry collection.

Off La Jolla, Cal.: U.S.B.F. station 4322, 110-197 fathoms, green mud and shell bottom. 1 specimen. Cat. No. 205935, U.S.N.M.

San Diego, Cal.: 1 specimen. Cat. No. 60916, U.S.N.M.

San Diego Bay, Cal.: 3 specimens. 12-30 fathoms. Baker collection.

Off San Diego, Cal.: Univ. of Cal. stations 47 and 82. 2 specimens. Univ. of Cal. collection.

TURBONILLA (STRIOTURBONILLA) STYLINA Carpenter.

Monterey, Cal.: 1 specimen, figured. 8-10 fathoms. Cat. No. 56429, U.S.N.M.
1 specimen. Kelsey collection.

Del Monte, Cal.: 1 specimen. 12 fathoms. Cat. No. 165199, U.S.N.M.

Off Coronado Islands, Lower Cal.: U.S.B.F. station 2932, 20 fathoms, gray sand and broken shell bottom; bottom temperature 58°. 2 specimens. Cat. No. 163249, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) CALVINI Dall and Bartsch.

Off La Paz, Lower California: U.S.B.F. station 2832, 26½ fathoms, broken shell bottom. 6 specimens (2=cotypes). Cat. No. 162442, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) CARPENTERI Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 160065, U.S.N.M.

2 specimens. Oldroyd collection.

TURBONILLA (STRIOTURBONILLA) SIMPSONI Dall and Bartsch.

Off Redondo, Cal.: Univ. of Cal. station 12. 4 specimens. Univ. of Cal. collection.

Off Long Beach, Cal.: Univ. of Cal. station 47. 1 specimen. Univ. of Cal. collection.

- Off San Pedro, Cal.: 2 specimens (1=type). 10 fathoms. Cat. No. 152750, U.S.N.M.
4 specimens. Cat. No. 163247, U.S.N.M.
1 specimen. Cat. No. 122750, U.S.N.M.
- Off Catalina Island, Cal.: Univ. of Cal. station 27. 1 specimen. Univ. of Cal. collection.
- San Diego, Cal.: 1 specimen. Cat. No. 152314b, U.S.N.M.
2 specimens. Cat. No. 205941, U.S.N.M.
6 specimens. Kelsey collection.
5 specimens. Gripp collection.
- Outside of kelp, off San Diego Harbor, Cal.: 5 specimens. 16-20 fathoms. Gripp collection.

TURBONILLA (STRIOTURBONILLA) PROFUNDICOLA Dall and Bartsch.

- Off Catalina Island, Cal.: 1 specimen. Univ. of Cal. collection.
- Off La Jolla, Cal.: U.S.B.F. station 4322, 110-197 fathoms, green mud and shell bottom. 1 specimen, type. Cat. No. 206856, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) GALIANOI Dall and Bartsch.

- Pacific Beach, San Diego, Cal.: 3 specimens. Cat. No. 162437, U.S.N.M.
- San Hipolito Point, Lower Cal.: 3 specimens. Cat. No. 162438, U.S.N.M.
2 specimens. Arnold collection.
1 specimen. Cat. No. 162441, U.S.N.M.
- Point Abrejos, Lower California: 2 specimens. Cat. No. 162439, U.S.N.M.
- Cape St. Lucas, Lower California: 2 specimens (1=type). Cat. No. 4104, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) HUMEROSA Dall and Bartsch.

- Off Catalina Island, Cal.: 1 specimen, type. Cat. No. 206857, U.S.N.M.
- San Diego, Cal.: 2 specimens. Cat. No. 205937, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) C-B-ADAMSI Carpenter.

- Mazatlan, Mexico: 13 specimens (1=type). Tablet 1990, Liverpool collection, British Museum.

TURBONILLA (STRIOTURBONILLA) SERRAE Dall and Bartsch.

- Barkley Sound, British Columbia: 18 specimens. Can. Geol. Sur. collection.
11 specimens. Cat. No. 211568, U.S.N.M.
- Del Monte, Monterey, Cal.: 6 specimens. 12 fathoms. Berry collection.
2 specimens (1=type). 12 fathoms. Cat. No. 196198, U.S.N.M.
- Off Pacific Grove, Monterey, Cal.: 1 specimen. 40 fathoms. Cat. No. 196200, U.S.N.M.
- Monterey, Cal.: 1 specimen. 29 fathoms. Berry collection.

TURBONILLA (STRIOTURBONILLA) DRACONA Bartsch.

- San Diego, Cal.: 1 specimen, type. Cat. No. 211548, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) ARESTA Dall and Bartsch.

- Off Santa Rosa Island, Cal.: U.S.B.F. station 2901, 48 fathoms, gray sand and mud bottom; bottom temperature 55.1°. 1 specimen. Cat. No. 163252, U.S.N.M.
- Off Catalina Island, Cal.: 10 specimens (1=type). Cat. No. 206858, U.S.N.M.
- San Diego, Cal.: 1 specimen. Cat. No. 206863, U.S.N.M.
1 specimen. 12-30 fathoms. Baker collection.
1 specimen. Kelsey collection.
1 specimen. Gripp collection.
- Midspit, San Diego Bay, Cal.: 1 specimen. Baker collection.
- Off San Diego, Cal.: 5 specimens. Univ. of Cal. collection.

TURBONILLA (STRIOTURBONILLA) PAZANA Dall and Bartsch.

Off Ceralvo Island, Gulf of California: U. S. B. F. stations 2826-2828, $9\frac{1}{2}$ to 10 fathoms, shell bottom. 3 specimens. Cat. No. 191565, U.S.N.M.

U. S. B. F. stations 2826-2828, $9\frac{1}{2}$ to 10 fathoms, shell bottom. 7 specimens. Cat. No. 162431, U.S.N.M.

Off La Paz, Lower California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken shell bottom. 2 specimens. Cat. No. 163250, U.S.N.M.

U. S. B. F. station 2823, $26\frac{1}{2}$ fathoms, broken shell bottom. 36 specimens (1=type). Cat. No. 162430, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) GALAPAGENSIS Dall and Bartsch.

Off Galapagos Islands, South America: U. S. B. F. station 2808, 634 fathoms, coral and sand bottom; bottom temperature 39.9° . 1 specimen, type. Cat. No. 206859, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) UNDATA Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 2002, Liverpool collection, British Museum.

TURBONILLA (STRIOTURBONILLA) AFFINIS C. B. Adams.

Panama: 1 specimen, type. Amherst College collection.

TURBONILLA (STRIOTURBONILLA) PHANEA Dall and Bartsch.

Off La Paz in the Gulf of California: U. S. B. F. station 2823, $26\frac{1}{2}$ fathoms, broken shell bottom. 3 specimens (1=type). Cat. No. 206860, U.S.N.M.

Off Ceralvo Island, Lower California: U. S. B. F. stations 2826 to 2828, $9\frac{1}{2}$ to 10 fathoms, shell bottom. 5 specimens. Cat. No. 206861, U.S.N.M.

Off La Paz, Lower California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken shell bottom. Cat. No. 163251, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) IMPERIALIS Dall and Bartsch.

Panama: 1 specimen, type. Cat. No. 206862, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) SMITHSONI Dall and Bartsch.

Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 160068, U. S. N. M.

Boca de los Piedras: 1 specimen. Cat. No. 46502, U.S.N.M.

TURBONILLA (STRIOTURBONILLA) GRACILIOR C. B. Adams.

Panama: 1 specimen. Amherst College collection.

TURBONILLA (STRIOTURBONILLA) COOKEANA Bartsch.

Gulf of California: 1 specimen, type. Cat. No. 211550, U.S.N.M.

TURBONILLA (PTYCHEULIMELLA) OBSOLETA Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 2011, Liverpool collection, British Museum.

TURBONILLA (PTYCHEULIMELLA) ABREOJENSIS Dall and Bartsch.

Point Abrejos, Lower California: 1 specimen, type. Cat. No. 205951, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) VICTORIANA Dall and Bartsch.

Departure Bay, British Columbia: 6 specimens. Taylor collection.

4 specimens. Cat. No. 196220, U.S.N.M.

Barkley Sound, British Columbia: 3 specimens. Can. Geol. Sur. collection.

2 specimens. Cat. No. 211571, U.S.N.M.

Victoria, Vancouver Island, British Columbia: 1 specimen, type. Cat. No. 126660a, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) GIBBOSA Carpenter.

Mazatlan, Mexico: 2 specimens. Tablet 1996, Liverpool collection, British Museum.

TURBONILLA (PYRGOLAMPROS) RIDGWAYI Dall and Bartsch.

San Diego, Cal.: 1 specimen, type. Cat. No. 162560, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) VALDEZI Dall and Bartsch.

Barkley Sound, British Columbia: 1 specimen. Can. Geol. Sur. collection.

Pacific Grove, Cal.: 1 specimen. Cat. No. 176624, U.S.N.M.

Monterey, Cal.: 1 specimen, type. Cat. No. 32273, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) NEWCOMBEI Dall and Bartsch.

Port Simpson, British Columbia: 12 specimens. Taylor collection.

6 specimens. Cat. No. 196214, U.S.N.M.

Barkley Sound, British Columbia: 1 specimen. Can. Geol. Sur. collection.

Victoria, Vancouver Island, British Columbia: 1 specimen, type. Cat. No. 126660, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) TAYLORI Dall and Bartsch.

Alert Bay, Queen Charlotte Island: 2 specimens. Cat. No. 196213, U.S.N.M.

4 specimens. Taylor collection.

Port Simpson, British Columbia: 1 specimen. Cat. No. 196211, U.S.N.M.

2 specimens. Taylor collection.

Carter Bay, British Columbia: 1 specimen, Taylor collection.

Banks Island, British Columbia: 8 specimens. Taylor collection.

3 specimens. Cat. No. 196212, U.S.N.M.

Departure Bay, British Columbia: 25 specimens. Taylor collection.

7 specimens (2=cotypes). Cat. No. 196210, U.S.N.M.

Barkley Sound, British Columbia: 4 specimens. Cat. No. 211572, U.S.N.M.

5 specimens. Cat. No. 211573, U.S.N.M.

15 specimens. Can. Geol. Sur. collection.

TURBONILLA (PYRGOLAMPROS) TALAMA Dall and Bartsch.

Barkley Sound, British Columbia: 1 specimen, type. Cat. No. 211537, U.S.N.M.

1 specimen. Collection of Can. Geol. Sur. Museum, Ottawa.

TURBONILLA (PYRGOLAMPROS) LOWEI Dall and Bartsch.

San Pedro, Cal.: 1 specimen. Cat. No. 159982, U.S.N.M.

1 specimen. Cat. No. 163257, U.S.N.M.

Off San Pedro, Cal.: 5 specimens (1=type). 10 fathoms. Cat. No. 152751a, U.S.N.M.

1 specimen. 4 fathoms. Cat. No. 204941, U.S.N.M.

Pacific Beach, Cal.: 1 specimen. Cat. No. 205948, U.S.N.M.

Off Point Loma, Cal.: U. S. B. F. station 4345, 25 fathoms, gray sand bottom. 1 specimen. Cat. No. 206864, U.S.N.M.

San Diego, Cal.: 1 specimen. Cat. No. 249621, U.S.N.M.

1 specimen. Gripp collection.

Off San Diego, Cal.: 1 specimen. 12 fathoms. Kelsey collection.

Outside of kelp, off San Diego Harbor, Cal.: 1 specimen. 16-20 fathoms. Gripp collection.

TURBONILLA (PYRGOLAMPROS) HALIBRECTA Dall and Bartsch.

Off Catalina Island, Cal.: 1 specimen, type. Cat. No. 205950, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) GOULDI Dall and Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2900, 13 fathoms, sand bottom.

1 specimen. Cat. No. 163258, U.S.N.M.

San Pedro, Cal.: 1 specimen, cotype. Cat. No. 163256a, U.S.N.M.

1 specimen, cotype. Cat. No. 159990, U.S.N.M.

9 specimens. Cat. No. 163256, U.S.N.M.

12 specimens. Oldroyd collection.

Pacific Beach, Cal.: 1 specimen. Cat. No. 162561, U.S.N.M.

Off San Diego, Cal.: Univ. of Cal. station 59. 1 specimen. Univ. of Cal. collection.

TURBONILLA (PYRGOLAMPROS) AURANTIA Carpenter.

Departure Bay, British Columbia: 4 specimens. Taylor collection.

2 specimen. Cat. No. 196205, U.S.N.M.

Victoria, Vancouver Island, British Columbia: 3 specimens. Cat. No. 126660, U.S.N.M.

Puget Sound, Washington: 1 specimen. Cat. No. 44936, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) PEDROANA Dall and Bartsch.

San Pedro, Cal.: 3 specimens. Cat. No. 163255, U.S.N.M.

Off San Pedro, Cal.: 4 specimens (1=type). 10 fathoms. Cat. No. 15275, U.S.N.M.

San Diego, Cal.: 1 specimen. Gripp collection.

9 miles off Point Loma Light, Cal.: U. S. B. F. station 4309, 67-78 fathoms, fine sand and shell bottom. 1 specimen. Cat. No. 206865, U.S.N.M.

Outside of kelp, off San Diego Harbor, Cal.: 1 specimen. 16-20 fathoms. Gripp collection.

TURBONILLA (PYRGOLAMPROS) HALIA Dall and Bartsch.

Santa Barbara, Cal.: 1 specimen. Berry collection.

Off San Pedro, Cal.: 1 specimen. 8 fathoms. Cat. No. 205946, U.S.N.M.

2 specimens. 10 fathoms. Cat. No. 205947, U.S.N.M.

San Diego, Cal.: 1 specimen, type. Cat. No. 59328, U.S.N.M.

2 specimens. Gripp collection.

TURBONILLA (PYRGOLAMPROS) LYALLI Dall and Bartsch.

Banks Island, British Columbia: 1 specimen, type. Cat. No. 196221, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) BERRYI Dall and Bartsch.

2 miles off Santa Cruz Light, Monterey Bay, Cal.: U. S. B. F. station 4564, 9-10 fathoms, rocky bottom; bottom temperature 59°. 1 specimen. Cat. No. 196225, U.S.N.M.

Monterey Bay, Cal.: 1 specimen, type. 39 fathoms. Cat. No. 196223, U.S.N.M.

1 specimen. 39 fathoms. Berry collection.

Catalina Island, Cal.: 1 specimen. 52 fathoms. Cat. No. 196224, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) ALASKANA Dall and Bartsch.

St. Paul, Kadiak, Alaska: 8 specimens (1=type). 13 fathoms. Cat. No. 160206, U.S.N.M.

Chagafka Cove, Kadiak, Alaska: Cat. No. 205149, U.S.N.M.

Granite Cove, Port Althorp, Alaska: 1 specimen. 8 fathoms. Cat. No. 205150, U.S.N.M.

Sitka Harbor, Alaska: 3 specimens. 12 fathoms. Cat. No. 160209, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) CHOCOLATA Carpenter.

San Pedro, Cal.: 1 specimen, figured. Cat. No. 15315, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) GLORIOSA Bartsch.

Outside San Diego, Cal.: 1 specimen, type. 12 fathoms. Cat. No. 211551, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) PAINEI Dall and Bartsch.

Redondo, Cal.: 1 specimen, type. Cat. No. 205952, U.S.N.M.

Off Avalon, Catalina Island, Cal.: 1 specimen. 50 fathoms. Cat. No. 171911, U.S.N.M.

San Diego, Cal.: 1 specimen. Cat. No. 203507, U.S.N.M.

1 specimen. Cat. No. 249620, U.S.N.M.

Off Coronado Hotel, San Diego, Cal.: 1 specimen. 35 fathoms. Cat. No. 205953, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) MACOUNI Dall and Bartsch.

Barkley Sound, British Columbia: 2 specimens (1=type). Cat. No. 211538, U.S.N.M.

? specimens. Can. Geol. Sur. Museum, Ottawa.

TURBONILLA (PYRGOLAMPROS) KEEPI Dall and Bartsch.

Long Beach, Cal.: 1 specimen, type. Cat. No. 173080, U.S.N.M.

Off Point Fermin, Cal.: Univ. of Cal. station 14 (3). ? specimens. Univ. of Cal. collection.

Off Catalina Island, Cal.: Univ. of Cal. station 21 (2). ? specimens. Univ. of Cal. collection.

Univ. of Cal. station 32. ? specimens. Univ. of Cal. collection.

Univ. of Cal. station 73. ? specimens. Univ. of Cal. collection.

TURBONILLA (PYRGOLAMPROS) HALISTREPTA Dall and Bartsch.

Off Newport, Cal.: 1 specimen, type. Cat. No. 205954, U.S.N.M.

2 specimens. Univ. of Cal. collection.

TURBONILLA (PYRGOLAMPROS) PESA Dall and Bartsch.

Barkley Sound, Vancouver Island, British Columbia: 1 specimen, type. Can. Geol. Sur. Museum, Ottawa.

TURBONILLA (PYRGOLAMPROS) RINELLA Dall and Bartsch.

Barkley Sound, Vancouver Island, British Columbia: 1 specimen, type. Can. Geol. Sur. Museum, Ottawa.

TURBONILLA (PYRGOLAMPROS) LITUYANA Dall and Bartsch.

Lituya Bay, Alaska: 1 specimen, type. Cat. No. 160208, U.S.N.M.

2 specimens. 8 fathoms. Cat. No. 160207, U.S.N.M.

TURBONILLA (PYRGOLAMPROS) OREGONENSIS Dall and Bartsch.

Off the coast of Washington: U. S. B. F. station 2868, 31 fathoms, gray sand bottom, bottom temperature 46.9°. 1 specimen. Cat. No. 196222, U.S.N.M.

Off Oregon: U. S. B. F. station 2885, 30 fathoms, fine gray sand bottom, bottom temperature 49°. 2 specimens (1=type). Cat. No. 181112, U.S.N.M.

TURBONILLA (PYRGISCUS) ANNETTAE Dall and Bartsch.

Off Manta, Ecuador: U. S. B. F. station 2792, 401 fathoms, green mud bottom, bottom temperature 42.9°. 2 specimens (1=type). Cat. No. 163265, U.S.N.M.

TURBONILLA (PYRGISCUS) GRACILLIMA Carpenter.

Mazatlan, Mexico: 2 specimens. Tablet 2001, Liverpool collection, British Museum.

TURBONILLA (PYRGISCUS) VEXATIVA Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 160200, U.S.N.M.

Point Loma, Cal.: 3 specimens. Baker collection.

TURBONILLA (PYRGISCUS) OBESA Dall and Bartsch.

Pacific Beach, Cal.: 1 specimen, type. Cat. No. 162563, U.S.N.M.

TURBONILLA (PYRGISCUS) FAVILLA Dall and Bartsch.

Panama?: 1 specimen. Carpenter collection.

TURBONILLA (PYRGISCUS) PEQUENSIS Dall and Bartsch.

Off Lower California: U. S. B. F. station 2834, 48 fathoms, yellow mud bottom, bottom temperature 53.9°. 1 specimen, type. Cat. No. 97019, U.S.N.M.

TURBONILLA (PYRGISCUS) NUTTINGI Dall and Bartsch.

Off San Pedro, Cal.: 3 specimens. 8 fathoms. Cat. No. 152752, U.S.N.M.

White's Point, San Pedro, Cal.: 1 specimen. Oldroyd collection.

Southeast of Zuninga, Cal.: 1 specimen. 10 fathoms. Baker collection.

Northwest of San Diego, Cal.: 2 specimens. 50 fathoms. Cat. No. 173075, U.S.N.M.

San Diego Bay, Cal.: 1 specimen. 12-30 fathoms. Baker collection.

San Diego, Cal.: 4 specimens. 20 fathoms. Kelsey collection.

Univ. of Cal. station 28, 50 fathoms. 1 specimen. Kelsey collection.

Univ. of Cal. station 28. 1 specimen. Univ. of Cal. collection.
1 specimen. Gripp collection.

Off San Diego, Cal.: 1 specimen, type. 20 fathoms. Cat. No. 160067, U.S.N.M.

Outside of kelp, off San Diego Harbor, Cal.: 1 specimen. 16-20 fathoms. Gripp collection.

TURBONILLA (PYRGISCUS) CALLIA Dall and Bartsch.

San Diego, Cal.: 1 specimen, type. Cat. No. 205936, U.S.N.M.

TURBONILLA (PYRGISCUS) SUPERBA Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken shell bottom. 3 specimens (1=type). Cat. No. 163251, U.S.N.M.

TURBONILLA (PYRGISCUS) PLUTO Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. 10 fathoms. Cat. No. 206866, U.S.N.M.

TURBONILLA (PYRGISCUS) JEWETTI Dall and Bartsch.

San Pedro, Cal.: 2 specimens. Oldroyd collection.

1 specimen. Lowe collection.

Laguna Beach, Cal.: 34 specimens. Ball collection.

15 specimens. Cat. No. 250235, U.S.N.M.

Arch Beach, Cal.: 1 specimen. Univ. of Cal. collection.

Pacific Beach, Cal.: 1 specimen. Cat. No. 162564, U.S.N.M.

Ocean Beach, Cal.: 2 specimens. Cat. No. 152316, U.S.N.M.

Terminal Island, Cal.: 1 specimen. Cat. No. 109519, U.S.N.M.

San Diego, Cal.: 2 specimens (1=type). Cat. No. 153048, U.S.N.M.

1 specimen. Cat. No. 163263, U.S.N.M.

5 specimens. Kelsey collection.

Todos Santos Bay, Lower California: 1 specimen. Cat. No. 46507, U.S.N.M.

San Hipolito Point, Lower California: 4 specimens. Cat. No. 162565, U.S.N.M.

Point Abrejos, Lower California: U. S. B. F. station 2835, 5½ fathoms, green mud bottom. 1 specimen. Cat. No. 162566, U.S.N.M.

TURBONILLA (PYRGISCUS) SIGNAE Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 160210, U.S.N.M.

TURBONILLA (PYRGISCUS) STRIOSA C. B. Adams.

Panama: 1 specimen, type. Amherst College collection.

TURBONILLA (PYRGISCUS) MORCHI Dall and Bartsch.

Near Redondo, Cal.: Univ. of Cal. station 122. 1 specimen. Univ. of Cal. collection.

Long Beach, Cal.: 1 specimen, type. Cat. No. 173081, U.S.N.M.

Off Catalina Island, Cal.: 1 specimen. 8 fathoms. Cat. No. 176622, U.S.N.M.

San Diego, Cal.: 5 specimens. Cat. No. 196230, U.S.N.M.

4 specimens. Lowe collection.

Off San Diego, Cal.: Univ. of Cal. station 83. 1 specimen. Univ. of Cal. collection.

TURBONILLA (PYRGISCUS) ARAGONI Dall and Bartsch.

Off New Monterey, Monterey Bay, Cal.: 1 specimen, type. 29 fathoms. Cat. No. 206867, U.S.N.M.

TURBONILLA (PYRGISCUS) RECTA Dall and Bartsch.

San Diego, Cal.: 1 specimen. Cat. No. 162634, U.S.N.M.

Point Abrejos, Lower California: 1 specimen, type. Cat. No. 162635, U.S.N.M.

TURBONILLA (PYRGISCUS) WELDI Dall and Bartsch.

Off Point Fermin, Cal.: Univ. of Cal. station 14. 1 specimen, type. Cat. No. 206868, U.S.N.M.

TURBONILLA (PYRGISCUS) NEREIA Dall and Bartsch.

San Pedro, Cal.: 1 specimen. Cat. No. 163260, U.S.N.M.

San Diego, Cal.: 1 specimen, type. Cat. No. 206869, U.S.N.M.

TURBONILLA (PYRGISCUS) ANTESTRIATA Dall and Bartsch.

Off Esteros Bay, Cal.: U. S. B. F. station 3194, 92 fathoms, gray sand bottom; bottom temperature 45.9°. 1 specimen, cotype. Cat. No. 168867, U.S.N.M.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2902, 53 fathoms, fine gray sand and mud bottom; bottom temperature 45°. 3 specimens. Cat. No. 196233, U.S.N.M.

Near Redondo, Cal.: Univ. of Cal. station 122. 1 specimen. Univ. of Cal. collection.

Off Point Vincent, Cal.: Univ. of Cal. station 12. 1 specimen. Univ. of Cal. collection.

San Pedro, Cal.: 1 specimen, cotype. Cat. No. 196232, U.S.N.M.

2 specimens. 12 fathoms. Cat. No. 196231, U.S.N.M.

Off Catalina Island, Cal.: Univ. of Cal. station 30. 1 specimen. Univ. of Cal. collection.

Off San Diego, Cal.: Univ. of Cal. station 58. 2 specimens. Univ. of Cal. collection.

San Diego, Cal.: ? specimens. Gripp collection.

Zuniga, Cal.: 1 specimen. Baker collection.

TURBONILLA (PYRGISCUS) ANTEMUNDA Dall and Bartsch.

Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom; bottom temperature 55.1°. 2 specimens, cotypes. Cat. No. 168866, U.S.N.M.

U. S. B. F. station 2902, 53 fathoms, fine gray sand and mud bottom; bottom temperature 45°. 20 specimens. Cat. No. 206872, U.S.N.M.

Off Catalina Island, Cal.: Univ. of Cal. station 32. 1 specimen. Univ. of Cal. collection.

TURBONILLA (PYRGISCUS) FLAVESCENS Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 2003, Havre collection, British Museum.

TURBONILLA (PYRGISCUS) MACBRIDEI Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2826, 9½ fathoms, shell bottom. 1 specimen, type. Cat. No. 191563, U.S.N.M.

TURBONILLA (PYRGISCUS) MACRA Dall and Bartsch.

Point Abrejos, Lower California: 6 specimens (1=type). Cat. No. 162632, U.S.N.M.

TURBONILLA (PYRGISCUS) NUTTALLI Dall and Bartsch.

South America. 1 specimen, type. Cat. No. 56791, U.S.N.M. (Stearns coll.)

TURBONILLA (PYRGISCUS) ANGUSTA Carpenter.

Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 16212, U.S.N.M.

TURBONILLA (PYRGISCUS) TENUICULA Gould.

Monterey, Cal.: 2 specimens. Cat. No. 32245, U.S.N.M.

Santa Barbara, Cal.: 1 specimen.¹ Cat. No. 16267a, U.S.N.M.

Santa Barbara Islands, Cal.: 1 specimen. Cat. No. 162637, U.S.N.M.

- San Pedro, Cal.: 2 specimens. Cat. No. 151724, U.S.N.M.
 2 specimens. Cat. No. 152198, U.S.N.M.
 7 specimens. Cat. No. 191547, U.S.N.M.
 1 specimen. Cat. No. 160480, U.S.N.M.
 1 specimen. Cat. No. 196227, U.S.N.M.
 9 specimens. (Form *subcuspidata* Carpenter.) Oldroyd collection.
 6 specimens. (Form *crebrifilata* Carpenter.) Oldroyd collection.
 431 specimens. Oldroyd collection.
 (White's Point.) 275 specimens. Cat. No. 196226, U.S.N.M.
 (White's Point.) (Form *subcuspidata* Carpenter.) 1 specimen. Oldroyd collection.
 23 specimens. Kelsey collection.
- Laguna Beach, Cal.: 134 specimens. Ball collection.
 20 specimens. Cat. No. 250236, U.S.N.M.
 3 specimens. Hemphill collection.
 1 specimen. Gripp collection.
- Arch Beach, Newport Bay, Cal.: 6 specimens. Univ. of Cal. collection.
- Off Catalina Island, Cal.: 1 specimen. Cat. No. 206873, U.S.N.M.
 1 specimen. Univ. of Cal. collection.
- Pacific Beach, Cal.: 1 specimen. Oldroyd collection.
 1 specimen. Cat. No. 192228, U.S.N.M.
- Ocean Beach, San Diego, Cal.: 2 specimens. Cat. No. 122318, U.S.N.M.
 7 specimens. Cat. No. 153065, U.S.N.M.
- Ballast Point, San Diego, Cal.: 1 specimen. Kelsey collection.
- San Diego, Cal.: 1 specimen. Kelsey collection.
 3 specimens. Cat. No. 46504, U.S.N.M.
 5 specimens. Cat. No. 160481, U.S.N.M.
 1 specimen.¹ Cat. No. 14829, U.S.N.M.
 1 specimen. Cat. No. 206875, U.S.N.M.
 2 specimens. Cat. No. 60933, U.S.N.M.
 1 specimen. Cat. No. 157204a, U.S.N.M.
 9 specimens. Univ. of Cal. collection.
 7 specimens. Oldroyd collection.
- Off South Coronado Island, Cal.: 9 specimens. 3 fathoms. Baker collection.
- Todos Santos Bay, Lower California: 7 specimens.² Cat. No. 32284, U.S.N.M.
- Point Abrejos, Lower California: 1 specimen. Cat. No. 105585, U.S.N.M.
 2 specimens. Cat. No. 106510, U.S.N.M.

TURBONILLA (PYRGISCUS) CALLIMENE Bartsch.

San Diego Bay, Cal.: 1 specimen, type. Cat. No. 211554, U.S.N.M.

TURBONILLA (PYRGISCUS) VIRGO Carpenter.

Santa Barbara, Cal.: 1 specimen, type. Cat. No. 73993, U.S.N.M.

TURBONILLA (PYRGISCUS) MARSHALLI Dall and Bartsch.

Off La Paz, Gulf of California: U.S.B.F. station 2822, 21 fathoms, gray sand and broken shell bottom. 2 specimens (1=type). Cat. No. 163262, U.S.N.M.

TURBONILLA (PYRGISCUS) CANFIELDI Dall and Bartsch.

Off Del Monte, Monterey, Cal.: 1 specimen, type. 12 fathoms. Cat. No. 196229, U.S.N.M.

¹ Figured type of *Turbonilla tenuicula subcuspidata*.

² Figured *crebrifilata*.

TURBONILLA (PYRGISCUS) ALMO Dall and Bartsch.

Off San Diego, Cal.: 4 specimens (1=type). 2 fathoms. Cat. No. 162633, U.S.N.M.

TURBONILLA (PYRGISCUS) CALLIPEPLUM Dall and Bartsch.

Panama Bay: U. S. B. F. station 2805, 51½ fathoms, green mud bottom. 1 specimen, type. Cat. No. 122797, U.S.N.M.

TURBONILLA (PYRGISCUS) DINA Dall and Bartsch.

Panama Bay: U. S. B. F. station 2799, 29½ fathoms, green mud bottom. 2 specimens (1=type). Cat. No. 162428, U.S.N.M.

TURBONILLA (PYRGISCUS) SHIMEKI Dall and Bartsch.

Off Galapagos Islands, South America: U. S. B. F. station 2813, 40 fathoms, coral and sand bottom. 2 specimens (1=type). Cat. No. 206877, U.S.N.M.

TURBONILLA (PYRGISCUS) SANCTORUM Dall and Bartsch.

Off Cerralvo Island, Gulf of California: U. S. B. F. station 2827, 10 fathoms, shell bottom. 4 specimens. Cat. No. 162516, U.S.N.M.

Off La Paz, Gulf of California: U. S. B. F. station 2823, 26½ fathoms, broken shell bottom. 21 specimens (1=type). Cat. No. 162514, U.S.N.M.

TURBONILLA (PYRGISCUS) EUCOSMOBASIS Dall and Bartsch.

San Luis Obispo Bay, Cal.: U. S. B. F. station 3195, 252 fathoms, green mud bottom, bottom temperature 43.2°. 1 specimen. Cat. No. 162680, U.S.N.M.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom, bottom temperature 55.1°. 4 specimens. Cat. No. 162681, U.S.N.M.

Off Santa Barbara, Cal.: U. S. B. F. station 2902, 53 fathoms, fine gray sand and mud bottom, bottom temperature 45°. 1 specimen, type. Cat. No. 162679, U.S.N.M.

Off Catalina Island, Cal.: Univ. of Cal. station 32. 1 specimen. Univ. of Cal. collection.

Off San Diego, Cal.: Univ. of Cal. station 59. 2 specimens. Univ. of Cal. collection.

TURBONILLA (PYRGISCUS) HALIDOMA Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken shell bottom. 1 specimen, type. Cat. No. 162693, U.S.N.M.

TURBONILLA (PYRGISCUS) AURICOMA Dall and Bartsch.

San Pedro, Cal.: 2 specimens. Oldroyd collection.

4 specimens. Oldroyd collection.

San Diego, Cal.: 1 specimen. Cat. No. 73997, U.S.N.M.

Outside of kelp, off San Diego Harbor, Cal.: 1 specimen. 16-20 fathoms. Gripp collection.

Scammon Lagoon, Lower California: 4 specimens (1=type). Cat. No. 106511, U.S.N.M.

2 specimens. Arnold collection.

2 specimens. Kelsey collection.

TURBONILLA (PYRGISCUS) CASTANEA Keep.

San Pedro, Cal.: 1 specimen. Oldroyd collection.

1 specimen. Cat. No. 160224, U.S.N.M.

Ocean Beach, Cal.: 2 specimens. Kelsey collection.

San Diego, Cal.: 1 specimen, type. Keep collection.

U. S. B. F. station 3566, 3 fathoms, fine sand and black shell bottom. 1 specimen. Cat. No. 162682, U.S.N.M.

U. S. B. F. station 3573, 1½ fathoms, mud and sand bottom. 1 specimen. Cat. No. 163264, U.S.N.M.

2 specimens. Arnold collection.

San Diego Bay, Cal.: 2 specimens. Kelsey collection.

Sandspit, San Diego, Cal.: 1 specimen. Cook collection.

TURBONILLA (PYRGISCUS) CASTANELLA Dall.

Monterey, Cal.: 1 specimen, type. Cat. No. 74000, U.S.N.M.

TURBONILLA (PYRGISCUS) GRIPPI Bartsch.

Off San Diego, Cal.: 1 specimen, type. Cat. No. 229011, U.S.N.M.

TURBONILLA (PYRGISCUS) INDENTATA Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 1986, Liverpool collection, British Museum.

TURBONILLA (PYRGISCUS) CORA D'Orbigny.

Coast of Peru, near Payta: 1 specimen, type. British Museum.

TURBONILLA (PYRGISCUS) CRATICULATA Mörch.

Los Bocorones, a small island near Punta Arenas, Costa Rica: 3 specimens. 30 fathoms. University Museum, Copenhagen, Denmark.

TURBONILLA (PYRGISCUS) CERALVA Dall and Bartsch.

Off Ceralvo Island, Gulf of California: U. S. B. F. station 2826, $9\frac{1}{2}$ fathoms, shell bottom. 1 specimen. Cat. No. 206878, U.S.N.M.

Off La Paz, Lower California: U. S. B. F. station 2823, $26\frac{1}{2}$ fathoms, broken-shell bottom. 1 specimen, type. Cat. No. 162685, U.S.N.M.

TURBONILLA (PYRGISCUS) LEPTA Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2823, $26\frac{1}{2}$ fathoms, broken-shell bottom. 1 specimen, type. Cat. No. 162584, U.S.N.M.

TURBONILLA (PYRGISCUS) HISTIAS Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken-shell bottom. 3 specimens (1=type). Cat. No. 162636, U.S.N.M.

TURBONILLA (PYRGISCUS) SUBULA Mörch.

Los Bocorones, small islands near Punta Arenas, Costa Rica. 1 specimen. 30 fathoms. University Museum, Copenhagen, Denmark.

TURBONILLA (PYRGISCUS) WICKHAMI Dall and Bartsch.

Off Santa Catalina Island, Cal.: Univ. of Cal. station 32. 4 specimens (1=type). Cat. No. 206879, U.S.N.M.

TURBONILLA (PYRGISCUS) LARA Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2823, $26\frac{1}{2}$ fathoms, broken-shell bottom. 67 specimens (1=type). Cat. No. 96707, U.S.N.M.

Off Ceralvo Island, Gulf of California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken-shell bottom. 8 specimens. Cat. No. 162683, U.S.N.M.

U. S. B. F. stations 2826-2828, $9\frac{1}{2}$ to 10 fathoms, shell bottom. 5 specimens. Cat. No. 191564, U.S.N.M.

U. S. B. F. stations 2826-2828, $9\frac{1}{2}$ to 10 fathoms, shell bottom. 31 specimens. Cat. No. 151929, U.S.N.M.

TURBONILLA (PYRGISCUS) CINCTELLA Mörch.

Sonsonate, Guatemala, Central America: 1 specimen, type. University Museum, Copenhagen, Denmark.

TURBONILLA (PYRGISCUS) ADUSTA Dall and Bartsch.

San Diego, Cal.: 1 specimen, type. Cat. No. 206880, U.S.N.M.

TURBONILLA (PYRGISCUS) LARUNDA Dall and Bartsch.

Off La Paz, Gulf of California: U. S. B. F. station 2822, 21 fathoms, gray sand and broken-shell bottom. 3 specimens (2=cotypes). Cat. No. 206881, U.S.N.M.

Monterey, Cal.: 1 specimen, type. Cat. No. 15315*b*, U.S.N.M.
 Monterey Bay, Cal.: 1 specimen. 39 fathoms. Berry collection.
 Off Santa Rosa Island, Cal.: U. S. B. F. station 2902, 53 fathoms, fine gray sand
 and mud bottom; bottom temperature 45°. 4 specimens. Cat. No. 126239,
 U.S.N.M.
 San Pedro, Cal.: 10 specimens. Cat. No. 196240, U.S.N.M.
 9 specimens. Oldroyd collection.
 (White's Point.) 2 specimens. Oldroyd collection.
 ? specimens. Lowe collection.
 3 specimens (1=figured). 4 fathoms. Cat. No. 150983,
 U.S.N.M.
 Laguna Beach, Cal.: 2 specimens. Ball collection.
 Off Catalina Island, Cal.: 1 specimen. Univ. of Cal. collection.
 Ocean Beach, Cal.: 1 specimen. Kelsey collection.
 San Diego, Cal.: 2 specimens. Cat. No. 46505, U.S.N.M.
 (Foot of Ash St.) 2 specimens. Oldroyd collection.
 1 specimen. Oldroyd collection.
 2 specimens. Arnold collection.
 2 specimens. Kelsey collection.
 (Off hotel.) 1 specimen. Kelsey collection.

TURBONILLA (MORMULA) AMBUSTA Dall and Bartsch.

- Off San Pedro, Cal.: 1 specimen, type. 10 fathoms. Cat. No. 152751, U.S.N.M.
 1 specimen. Lowe collection.
 1 specimen. Oldroyd collection.

San Diego, Cal.: 1 specimen. Gripp collection.

TURBONILLA (MORMULA) SCAMMONENSIS Bartsch.

- Scammon Lagoon, Lower California: 1 specimen, figured. Cat. No. 211552, U.S.N.M.
 1 specimen. Kelsey collection.

TURBONILLA (MORMULA) MAJOR C. B. Adams.

Panama: 1 specimen. Cat. No. 225, Amherst College collection.

TURBONILLA (MORMULA) SANTOSANA Dall and Bartsch.

Off Todos Santos, Lower California: U. S. B. F. station 2830, 66 fathoms, fine sand bottom; bottom temperature 74.1°. 1 specimen, type. Cat. No. 162689, U.S.N.M.

TURBONILLA (MORMULA) PENTALOPHA Dall and Bartsch.

- San Pedro Bay, Cal.: 4 specimens. Oldroyd collection.
 San Pedro, Cal.: 4 specimens. Oldroyd collection.
 1 specimen. Cat. No. 206885, U.S.N.M.
 San Diego, Cal.: 36 specimens (1=type). Cat. No. 46501, U.S.N.M. 5 specimens. Cat. No. 59328, U.S.N.M.
 U. S. B. F. station 3564, 5 fathoms, fine sand, mud and black shell bottom. 1 specimen. Cat. No. 206882, U.S.N.M.
 U. S. B. F. station 3566, 3 fathoms, fine sand and black shell bottom. 3 specimens. Cat. No. 206883, U.S.N.M. (Off Hotel.) 4 specimens. 12 fathoms. Kelsey collection.
 Southern California: 1 specimen. Cat. No. 206884, U.S.N.M.
 Todos Santos Bay, Lower California: 1 specimen. Cat. No. 32284, U.S.N.M.

TURBONILLA (MORMULA) HETEROLOPHA Dall and Bartsch.

- Ocean Beach, Cal.: 1 specimen. Kelsey collection.
 San Diego, Cal.: 4 specimens (1=type). Cat. No. 153065, U.S.N.M.
 1 specimen. 12 fathoms. Cat. No. 206886, U.S.N.M.
 San Hipolito Point, Cal.: 4 specimens. Cat. No. 192690, U.S.N.M.
 5 specimens. Hemphill collection.

TURBONILLA (MORMULA) IGNACIA Dall and Bartsch.

San Ignacio Lagoon, Lower California: 3 specimens (1=type). Cat. No. 162691, U.S.N.M.

TURBONILLA (MORMULA) PERISCCELIDA Dall and Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom; bottom temperature 55.1°. 3 specimens (1=type). Cat. No. 163266, U.S.N.M.

TURBONILLA (MORMULA) PHALERA Dall and Bartsch.

Panama Bay: U. S. B. F. station 2794, 62 fathoms, gray sand, black specks and broken shell bottom; bottom temperature 59.6°. 1 specimen, type. Cat. No. 163267, U.S.N.M.

TURBONILLA (DUNKERIA) SEDILLINA Dall and Bartsch.

- Off Cerralvo Island, Gulf of California: U. S. B. F. station 2826, 9½ fathoms, shell bottom. 1 specimen. Cat. No. 206888, U.S.N.M.
 Off La Paz, Gulf of California: U. S. B. F. station 2823, 26½ fathoms, broken shell bottom. 10 specimens (1=type). Cat. No. 162697 U.S.N.M.
 U. S. B. F. station 2822, 21 fathoms, gray sand and broken shell bottom. 1 specimen. Cat. No. 206887, U.S.N.M.

TURBONILLA (DUNKERIA) LAMINATA Carpenter.

San Pedro, Cal.: 3 specimens. Cat. No. 14946, U.S.N.M.

3 specimens. Cat. No. 130564, U.S.N.M.

34 specimens. Cat. No. 208465, U.S.N.M.

1 specimen, described and figured. Cat. No. 946*b*, U.S.N.M.

62 specimens. Oldroyd collection.

? specimens. Roper collection.

? specimens. Lowe collection.

Terminal Island, Cal.: ? specimens. Eshnaur collection.

Off Catalina Island, Cal.: Univ. of Cal. station 32. 1 specimen. Univ. of Cal. collection.

Ocean Beach, Cal.: 7 specimens. Cat. No. 153049, U.S.N.M.

1 specimen. Cat. No. 152315, U.S.N.M.

Off Ballast Point, San Diego, Cal.: 3 specimens. 12-15 fathoms. Cat. No. 160111, U.S.N.M.

16 specimens. Kelsey collection.

San Diego, Cal.: 5 specimens. Kelsey collection.

2 specimens. Cat. No. 152317, U.S.N.M.

2 specimens. Cat. No. 109366, U.S.N.M.

2 specimens. Arnold collection.

2 specimens. Lowe collection.

U. S. B. F. station 3566, 3 fathoms, fine sand and black shell bottom. 1 specimen. Cat. No. 206891, U.S.N.M.

(Foot of Ash St.) 4 specimens. Oldroyd collection.

San Diego Harbor, Cal.: 2 specimens. Cat. No. 211111, U.S.N.M.

White's Point, San Diego, Cal.: 1 specimen. Oldroyd collection.

Off San Diego, Cal.: Univ. of Cal. station 37. 1 specimen. Univ. of Cal. collection.

Outside of kelp, off San Diego Harbor, Cal.: 1 specimen. 16-20 fathoms. Gripp collection.

Todos Santos Bay, Lower California: 1 specimen. Cat. No. 32284*b*, U.S.N.M.

Point Abreojos, Lower California: 5 specimens. Cat. No. 106517, U.S.N.M.

TURBONILLA (DUNKERIA) HIPOLITENSIS Dall and Bartsch.

San Hipolito Point, Lower California: 3 specimens (1=type). Cat. No. 206889, U.S.N.M.

TURBONILLA (DUNKERIA) EXCOLPA Dall and Bartsch.

Gulf of California: 1 specimen, type. Cat. No. 206892, U.S.N.M.

TURBONILLA (DUNKERIA) SUBANGULATA Carpenter.

Mazatlan, Mexico: 2 specimens. Tablet 2008, Liverpool collection, British Museum.

TURBONILLA (DUNKERIA) ANDREWSI Dall and Bartsch.

Panama: 1 specimen, type. Cat. No. 162969, U.S.N.M.

3 specimens. Amherst collection.

TURBONILLA (DUNKERIA) ARATA Dall and Bartsch.

Off Santa Catalina Island, Cal.: 1 specimen, type. Cat. No. 206890, U.S.N.M.

TURBONILLA (DUNKERIA) GENILDA Dall and Bartsch.

Panama Bay: U.S.B.F. station 2799, 29½ fathoms, green mud bottom. 1 specimen, type. Cat. No. 96806, U.S.N.M.

U.S.B.F. station 2799, 29½ fathoms, green mud bottom. 3 specimens. Cat. No. 162694, U.S.N.M.

TURBONILLA (PYRGISCULUS) MONILIFERA Dall and Bartsch.

Gulf of California: 1 specimen, type. Cat. No. 58334, U.S.N.M.

TURBONILLA (PYRGISCULUS) CANCELLATA Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 2009, Liverpool collection, British Museum.

TURBONILLA (PYRGISCULUS) FESTIVA De Folin.

Bay of Panama: 1 specimen, type. De Folin collection.

TURBONILLA (PYRGISCULUS) EUCOSMIA Dall and Bartsch.

Off Cerralvo Island, Gulf of California: U.S.B.F. station 2827, 10 fathoms, shell bottom. 2 specimens. Cat. No. 163251a, U.S.N.M.

Off La Paz, Gulf of California: U.S.B.F. station 2822, 21 fathoms, gray sand and broken shell bottom. 1 specimen, type. Cat. No. 162698, U.S.N.M.

TURBONILLA (PYRGISCULUS) SWANI Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 160485, U.S.N.M.

TURBONILLA (PYRGISCULUS) PAUCILIRATA Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 2007, Liverpool collection, British Museum.

TURBONILLA (ASMUNDA) TURRITA C. B. Adams.

Panama: 2 specimens, cotypes. Cat. No. 230, Amherst College collection.
1 specimen. Cat. No. 251, U.S.N.M.

TURBONILLA (CARELIOPSIS) STENOGYRA Dall and Bartsch.

San Hipolito Point, Lower California: 2 specimens (1=type). Cat. No. 162699, U.S.N.M.

ODOSTOMIA (LYSACME) CLAUSILIFORMIS Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 1987, Liverpool collection, British Museum.

ODOSTOMIA (SALASSIELLA) LAXA Dall and Bartsch.

Pacific Beach, Cal.: 1 specimen. Kelsey collection.

San Diego, Cal.: 1 specimen. Cat. No. 286893, U.S.N.M.

Scammon Lagoon, Lower California: 2 specimens. Cat. No. 106512, U.S.N.M.

ODOSTOMIA (SALASSIELLA) RICHI Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 160484, U.S.N.M.

ODOSTOMIA (SALASSIA) TROPIDITA Dall and Bartsch.

Isle of Pearls, Bay of Panama: 1 specimen, type. De Folin collection.

ODOSTOMIA (SALASSIA) SCALARIFORMIS Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 1962, Liverpool collection, British Museum.

ODOSTOMIA (BESLA) CONVEXA Carpenter.

Off Cacachitas, Gulf of California: U.S.B.F. station 2823, 26½ fathoms, broken shell bottom. 2 specimens. Cat. No. 162734, U.S.N.M.

Mazatlan, Mexico. 2 specimens (1=type). Tablet 1984, Liverpool collection, British Museum.

ODOSTOMIA (BESLA) EXCOLPA Bartsch.

Gulf of California: 1 specimen, type. Cat. No. 198903a, U.S.N.M.

ODOSTOMIA (BESLA) CALLIMORPHA Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 15565, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) HETEROCINCTA Bartsch.

Off San Diego, Cal.: U.S.B.F. station 2932, 20 fathoms, gray sand and broken shell bottom; bottom temperature 58°. 1 specimen, type. Cat. No. 212033, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) REIGENI Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 1979, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSALLIDA) INCONSPICUA C. B. Adams.

Panama Bay: 1 specimen, type. Amherst College collection.

ODOSTOMIA (CHRYSALLIDA) TELESCOPIUM Carpenter.

Mazatlan, Mexico: 3 specimens. Tablet 1978, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSALLIDA) EXCELSA Dall and Bartsch.

Bay of Panama: 1 specimen, type. Cat. No. 206894, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) ACRYBIA Dall and Bartsch.

Point Abreojos, Lower California: 1 specimen, type. Cat. No. 206895, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) COMMUNIS C. B. Adams.

Bay of Panama: 15 specimens. Amherst College collection.

ODOSTOMIA (CHRYSALLIDA) TORRITA Dall and Bartsch.

Mazatlan, Mexico: 5 specimens (1=type). Amherst College collection.

ODOSTOMIA (CHRYSALLIDA) LICINA Dall and Bartsch.

Manuel Lagoon, Lower California: 2 specimens (1=type). Cat. No. 106500, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) TALAMA Dall and Bartsch.

Scammon Lagoon, Lower California: 4 specimens (1=type). Cat. No. 106518, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) EFFUSA Carpenter.

Cape St. Lucas, Lower California: 1 specimen. Cat. No. 16194, U.S.N.M.

Mazatlan, Mexico: 1 specimen, type. Tablet 1980, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSALLIDA) PAUPERCULA C. B. Adams.

Bay of Panama: 1 specimen, type. Amherst College collection.

ODOSTOMIA (CHRYSALLIDA) CLATHRATULA C. B. Adams.

Bay of Panama: 2 specimens. Amherst College collection.
8 specimens. ? collection.

ODOSTOMIA (CHRYSALLIDA) RITTERI Dall and Bartsch.

Off Catalina Island Cal.: Univ. of Cal. station 30. 1 specimen, type. Cat. No. 206896, U.S.N.M.

Univ. of Cal. station 30. 4 specimens. Univ. of Cal. collection.

1 specimen, 50 fathoms. Cat. No. 206897, U.S.N.M.

Off San Diego, Cal.: Univ. of Cal. station 47. 4 specimens. Univ. of Cal. collection.

Univ. of Cal. station 59. 3 specimens. Univ. of Cal. collection.

Univ. of Cal. station 83. 3 specimens. Univ. of Cal. collection.

San Diego, Cal.: 2 specimens. Kelsey collection.

San Pedro, Cal.: 8 specimens. Baldrige collection.

ODOSTOMIA (CHRYSALLIDA) RINELLA Dall and Bartsch.

Bay of Panama: 1 specimen, type. Cat. No. 162781, U.S.N.M.

ODOSTOMIA (CHRYSALLIDA) EUGENA Dall and Bartsch.

San Pedro, Cal.: 1 specimen. Cat. No. 168566, U.S.N.M.

2 specimens. Berry collection.

South Coronado Island, Cal.: 1 specimen. 3 fathoms. Kelsey collection.

San Diego, Cal.: 1 specimen. Cat. No. 168567, U.S.N.M.

(Foot of Ash St.) 1 specimen. Oldroyd collection.

San Hipolito Point, Lower California: 4 specimens (1=type). Cat. No. 127545, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) TRACHIIS Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 168619, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) LUCCA Dall and Bartsch.

Monterey, Cal.: 1 specimen. Kelsey collection.

Off Santa Catalina Island, Cal.: 1 specimen. Univ. of Cal. collection.

Off San Diego, Cal.: Univ. of Cal. station 47. 4 specimens. Univ. of Cal. collection.

San Diego, Cal.: 1 specimen, type. Cat. No. 206898, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) CLEMENTINA Dall and Bartsch.

San Clemente Island, Cal.: 1 specimen, type. Cat. No. 162043, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) OONISCA Dall and Bartsch.

Mazatlan, Mexico: 9 specimens. Tablet 1982, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSTALLIDA) OLDROYDI Dall and Bartsch.

San Pedro, Cal.: (White's Point.) 1 specimen. Cat. No. 162766, U.S.N.M.

San Diego, Cal.: 1 specimen, type. Cat. No. 162765, U.S.N.M.

Off Los Coronados Islands: U. S. B. F. station 2932, 20 fathoms, gray sand and broken shell bottom; bottom temperature 58°. 1 specimen. Cat. No. 168569, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) NODOSA Carpenter.

Mazatlan, Mexico: 2 specimens. Tablet 1969, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSTALLIDA) OVATA Carpenter.

Mazatlan, Mexico: 3 specimens. Tablet 1968, Liverpool collection. British Museum.

ODOSTOMIA (CHRYSTALLIDA) CINCTA Carpenter.

San Pedro, Cal.: 1 specimen. Cat. No. 162768, U.S.N.M.

Santa Barbara, Cal.: 1 specimen, type. Cat. No. 15730, U.S.N.M.

Pacific Beach, Cal.: 1 specimen. Cat. No. 162769, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) LOOMISI Dall and Bartsch.

Bay of Panama: 6 specimens (1=type). Amherst College collection.

ODOSTOMIA (CHRYSTALLIDA) VICOLA Dall and Bartsch.

San Pedro Bay, Cal.: 1 specimen, type. Cat. No. 206899, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) ASTRICTA Dall and Bartsch.

Monterey, Cal.: 1 specimen, type. Cat. No. 196280, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) COOPERI Dall and Bartsch.

Monterey, Cal.: 1 specimen, type. Cat. No. 162771, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) HIPOLITENSIS Dall and Bartsch.

San Hipolito Point, Lower California: 1 specimen, type. Cat. No. 162770, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) LAPAZANA Dall and Bartsch.

Off La Paz, Lower California: U. S. B. F. station 2823, 26½ fathoms, broken shell bottom. 3 specimens (1=type). Cat. No. 162778, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) PROXIMA De Folin.

Margarita Island, Bay of Panama: 1 specimen, type. De Folin collection.

ODOSTOMIA (CHRYSTALLIDA) TYLERI Dall and Bartsch.

Bay of Panama: 6 specimens (1=type). Amherst College collection.

ODOSTOMIA (CHRYSTALLIDA) SCAMMONENSIS Dall and Bartsch.

Scammon Lagoon, Lower California: 1 specimen, type. Cat. No. 106518, U.S.N.M.

San Hipolito Point, Lower California: 4 specimens. Cat. No. 162770, U.S.N.M.

Point Abreojos, Lower California: 8 specimens. Cat. No. 162780, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) PULCHRA De Folin.

Margarita Island, Bay of Panama: 1 specimen, type. De Folin collection.

ODOSTOMIA (CHRYSTALLIDA) MONTEREYENSIS Dall and Bartsch.

Del Monte, Monterey Bay, Cal.: 1 specimen, type. Cat. No. 196281, U.S.N.M.
3 specimens. Berry collection.

Monterey, Cal.: 1 specimen. Cat. No. 74003, U.S.N.M.

1 specimen. Cat. No. 196282, U.S.N.M.

1 specimen. Oldroyd collection.

1 specimen. Kelsey collection.

San Luis Obispo, Cal.: 1 specimen. Cat. No. 162767, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) PULCIA Dall and Bartsch.

Monterey, Cal.: 1 specimen. Kelsey collection.

San Luis Obispo, Cal.: 1 specimen. Oldroyd collection.

Terminal Island, Cal.: 2 specimens. Eshnaur collection.

San Pedro, Cal.: 36 specimens (1=type). Cat. No. 162763, U.S.N.M.

70 specimens. Oldroyd collection.

37 specimens. Cat. No. 168568, U.S.N.M.

2 specimens (1 young). Baldrige collection.

ODOSTOMIA (CHRYSTALLIDA) VIRGINALIS Dall and Bartsch.

White's Point, San Pedro, Cal.: 4 specimens. Oldroyd collection.

48 specimens. Cat. No. 158570, U.S.N.M.

10 specimens. Oldroyd collection.

San Pedro, Cal.: 47 specimens. Oldroyd collection.

2 specimens. Baldrige collection.

Arch Beach, San Diego, Cal.: 1 specimen. Univ. of Cal. collection.

San Diego, Cal.: 10 specimens. Kelsey collection.

Todos Santos Bay, Lower California: 1 specimen. Cat. No. 60914, U.S.N.M.

1 specimen. Cat. No. 46177, U.S.N.M.

11 specimens (1=type). Cat. No. 46152,
U.S.N.M.

San Hipolito Point, Lower California: 4 specimens. Cat. No. 127546, U.S.N.M.

Point Abrejos, Lower California: 4 specimens. Cat. No. 105474, U.S.N.M.

4 specimens. Cat. No. 106499, U.S.N.M.

2 specimens. Kelsey collection.

ODOSTOMIA (CHRYSTALLIDA) DEFOLINIA Dall and Bartsch.

Margarita Island, Bay of Panama: 1 specimen, type. De Folin collection.

ODOSTOMIA (CHRYSTALLIDA) DEFOLINIA CONTRACTA De Folin.

Panama: 1 specimen. De Folin collection.

ODOSTOMIA (CHRYSTALLIDA) DEFOLINIA DIFFICILIS Dall and Bartsch.

Panama: 1 specimen. De Folin collection.

ODOSTOMIA (CHRYSTALLIDA) OREGONENSIS Dall and Bartsch.

Cumshewa Inlet, Queen Charlotte Islands, British Columbia: 10 specimens
(1=type). Cat. No. 107690, U.S.N.M.

Monterey, Cal.: 1 specimen. Cat. No. 73998, U.S.N.M.

1 specimen. Cat. No. 196283, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) BENTHINA Dall and Bartsch.

Mazatlan, Mexico: 2 specimens. Tablet 1971, Liverpool collection, British
Museum.

ODOSTOMIA (CHRYSTALLIDA) PROMECES Dall and Bartsch.

Todos Santos Bay, Lower California: 1 specimen, type. Cat. No. 162777, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) PULCHERRIMA Dall and Bartsch.

Terminal Island, San Pedro, Cal.: 1 specimen, type. Cat. No. 206900, U.S.N.M.
San Diego, Cal.: 1 specimen. Kelsey collection.

ODOSTOMIA (CHRYSTALLIDA) VINCTA Dall and Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 162762, U.S.N.M.
1 specimen. Berry collection.

ODOSTOMIA (CHRYSTALLIDA) FASCIATA Carpenter.

Mazatlan, Mexico: 5 specimens. Tablet 1981, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSTALLIDA) HELGA Dall and Bartsch.

Terminal Island, San Pedro, Cal.: 11 specimens. Cat. No. 206902, U.S.N.M.
San Pedro, Cal.: 100 specimens. Cat. No. 162774, U.S.N.M.
190 specimens. Oldroyd collection.
San Pedro Bay, Cal.: 9 specimens. Cat. No. 206901, U.S.N.M.
Pacific Beach, San Diego, Cal.: 6 specimens. Cat. No. 162773, U.S.N.M.
8 specimens. Kelsey collection.
San Diego, Cal.: 11 specimens (1=type). Cat. No. 60905, U.S.N.M.
4 specimens. Oldroyd collection.
? specimens. Gripp collection.
6 specimens. Kelsey collection.
Arch Beach, San Diego, Cal.: 1 specimen. Univ. of Cal. collection.
South end Coronado Island, Cal.: 2 specimens. 7-10 fathoms. Baker collection.

ODOSTOMIA (CHRYSTALLIDA) DICELLA Bartsch.

San Diego, Cal.: 1 specimen, type. Cat. No. 211562, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) THALIA Bartsch.

North end of South Coronado Island, Cal.: 1 specimen, type. 6 fathoms. Cat. No. 249903, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) SANCTORUM Dall and Bartsch.

Todos Santos Bay, Lower California: 4 specimens (1=type). Cat. No. 46439, U.S.N.M.
San Hipolito Point, Lower California: 3 specimens. Cat. No. 206803, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) SAPIA Dall and Bartsch.

San Diego, Cal.: 1 specimen, type. Cat. No. 162775, U.S.N.M.

ODOSTOMIA (CHRYSTALLIDA) ROTUNDATA Carpenter.

Mazatlan, Mexico: 2 specimens. Tablet 1970, Liverpool collection, British Museum.

ODOSTOMIA (CHRYSTALLIDA) DECEPTRIX Dall and Bartsch.

San Hipolito Point, Lower California: 5 specimens (1=type). Cat. No. 206904, U.S.N.M.
Point Abrejos, Lower California: 3 specimens. Cat. No. 206905, U.S.N.M.

ODOSTOMIA (PYRGULINA) MARGINATA C. B. Adams.

Panama: 1 specimen, type. Amherst College collection.

ODOSTOMIA (EGILA) LACUNATA Carpenter.

Mazatlan, Mexico: 7 specimens (1=type). Tablet 1964, Liverpool collection, British Museum.

ODOSTOMIA (EGILA) POPPEI Dall and Bartsch.

Point Abrejos, Lower California: 2 specimens (1=type). Cat. No. 106519, U.S.N.M.
3 specimens. Arnold collection.

ODOSTOMIA (HALDRA) PHOTIS Carpenter.

- Mazatlan, Mexico: 1 specimen, type. Tablet 1985, Liverpool collection, British Museum.
1 specimen. Tablet 1983, Liverpool collection, British Museum.

ODOSTOMIA (IVIDELLA) PEDROANA Dall and Bartsch.

- San Pedro, Cal.: 1 specimen, type. Cat. No. 107422, U.S.N.M.
1 specimen. Cat. No. 162845, U.S.N.M.
4 specimens. Cat. No. 152171a, U.S.N.M.
9 specimens. Oldroyd collection.
San Pedro, White's Point, Cal.: 2 specimens. Oldroyd collection.
Laguna Beach, Cal.: 1 specimen. Ball collection.
Catalina Island, Cal.: 2 specimens. 12 fathoms. Cat. No. 46162, U.S.N.M.
Pacific Beach, Cal.: 1 specimen. Gripp collection.
San Diego, Cal.: U.S. B. F. station 3566, 3 fathoms, fine sand and black shell bottom. 5 specimens. Cat. No. 162846, U.S.N.M.
U.S.B.F. station 3572, 2 fathoms, mud and fine sand bottom.
7 specimens. Cat. No. 162847, U.S.N.M.
4 specimens. Cat. No. 109364, U.S.N.M.
2 specimens. Oldroyd collection.
(Off Coronado Hotel.) 1 specimen. Cat. No. 160094, U.S.N.M.
(Off Coronado Hotel.) 4 specimens. Cat. No. 74022, U.S.N.M.
(Off Coronado Hotel.) 1 specimen. Cat. No. 32305, U.S.N.M.
Scammon Lagoon, Lower California: 1 specimen. Cat. No. 106425, U.S.N.M.

ODOSTOMIA (IVIDELLA) NAVISA Dall and Bartsch.

- San Pedro, Cal.: 30 specimens. Cat. No. 129336, U.S.N.M.
3 specimens. Cat. No. 162843, U.S.N.M.
San Pedro (White's Point), Cal.: 7 specimens. Oldroyd collection.
California: 28 specimens. Oldroyd collection.
Arch Beach, Cal.: 1 specimen. Univ. of Cal. collection.
Ocean Beach, San Diego, Cal.: 1 specimen. Cat. No. 62844, U.S.N.M.
San Diego, Cal.: 1 specimen. Kelsey collection.
Scammon Lagoon, Lower California: 4 specimens (1=type). Cat. No. 106502, U.S.N.M.

ODOSTOMIA (IVIDELLA) NAVISA DELMONTENSIS Dall and Bartsch.

- Off Del Monte, Monterey Bay, Cal.: 1 specimen, type. 12 fathoms. Cat. No. 196297, U.S.N.M.

ODOSTOMIA (IVIDELLA) QUINQUECINCTA Carpenter.

- Mazatlan, Mexico: 1 specimen. Tablet 1963, Liverpool collection, British Museum.

ODOSTOMIA (IVIDELLA) ORARIANA Dall and Bartsch.

- Panama: 1 specimen, type. Amherst College collection.

ODOSTOMIA (MIRALDA) HEMPHILLI Dall and Bartsch.

- San Pedro, Cal.: 1 specimen. Cat. No. 162842, U.S.N.M.
San Hipolito Point, Lower California: 1 specimen, type. Cat. No. 162841, U.S.N.M.
1 specimen. Hemphill collection.
Point Abreojos, Lower California: 1 specimen. Kelsey collection.
1 specimen. Cat. No. 106498, U.S.N.M.

ODOSTOMIA (MIRALDA) ARMATA Carpenter.

- Mazatlan, Mexico: 1 specimen. Tablet 1965, Liverpool collection, British Museum.

ODOSTOMIA (MIRALDA) EXARATA Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 1966, Liverpool collection, British Museum.

ODOSTOMIA (MIRALDA) TEREPELLUM C. B. Adams.

Panama Bay: 1 specimen. Amherst College collection.

ODOSTOMIA (MIRALDA) AEPYNOTA Dall and Bartsch.

San Pedro, Cal.: 31 specimens (1=type). Cat. No. 129335, U.S.N.M.
27 specimens. Oldroyd collection.

White's Point, San Pedro, Cal.: 2 specimens. Oldroyd collection.

Catalina Island, Cal.: 1 specimen. Berry collection.

San Diego, Cal.: 1 specimen. Gripp collection.

2 specimens. Kelsey collection.

3 specimens. Cat. No. 105467, U.S.N.M.

Cape St. Lucas, Lower California: 1 specimen. Cat. No. 16222, U.S.N.M.

ODOSTOMIA (MIRALDA) GALAPAGENSIS Dall and Bartsch.

Near the Galapagos Islands, South America: U.S.B.F. station 2813, 40 fathoms, coral and sand bottom. 1 specimen, type. Cat. No. 206906, U.S.N.M.

ODOSTOMIA (IVARA) TURRICULA Dall and Bartsch.

Monterey, Cal.: 1 specimen. Cat. No. 73999, U.S.N.M.

San Pedro, Cal.: 35 specimens (1=type). Cat. No. 168716, U.S.N.M.

10 specimens. Cat. No. 207128, U.S.N.M.

23 specimens. Oldroyd collection.

Arch Beach, 11 miles southeast of Newport Beach, Cal.: 2 specimens. Univ. of Cal. collection.

Catalina Island, Cal.: 3 specimens. Cat. No. 168717, U.S.N.M.

San Diego, Cal. 1 specimen. Kelsey collection.

Todos Santos Bay, Lower California: 1 specimen. Cat. No. 46176, U.S.N.M.

Point Abrejos, Lower California: 1 specimen. Cat. No. 105499, U.S.N.M.

ODOSTOMIA (EVALINA) AMERICANA Dall and Bartsch.

San Pedro, Cal.: 12 specimens (1=type). Cat. No. 168718, U.S.N.M.

10 specimens. Oldroyd collection.

Arch Beach, Cal.: 2 specimens. Univ. of Cal. collection.

Santa Catalina Island, Cal.: 2 specimens. Cat. No. 168720, U.S.N.M.

La Jolla, Cal.: 2 specimens. Cat. No. 162677, U.S.N.M.

San Diego, Cal.: 1 specimen. Cat. No. 168719, U.S.N.M.

South end Coronado Island, Cal.: 1 specimen. 7-10 fathoms. Baker collection.

ODOSTOMIA (EVALINA) INTERMEDIA Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 2010, Liverpool collection, British Museum.

ODOSTOMIA (IOLAEA) AMIANTA Dall and Bartsch.

Monterey Bay, Cal.: 1 specimen. Cat. No. 37253, U.S.N.M.

Monterey, off Del Monte, Cal.: 6 specimens, 12 fathoms. Berry collection.

1 specimen, 12 fathoms. Cat. No. 168683, U.S.N.M.

San Pedro, Cal.: 1 specimen. Cat. No. 168684, U.S.N.M.

2 specimens. Oldroyd collection.

Univ. of Cal. station 83. 1 specimen. Univ. of Cal. collection.

San Pedro, Long Beach, Cal.: 1 specimen. Cat. No. 196298, U.S.N.M.

Off Catalina Island, Cal.: Univ. of Cal. station 28. 1 specimen. Univ. of Cal. collection.

Univ. of Cal. station 30. 1 specimen. Univ. of Cal. collection.

Pacific Beach, Cal.: 1 specimen. Hemphill collection.

- San Diego, Cal.: 1 specimen. Gripp collection.
2 specimens. Kelsey collection.
Univ. of Cal. station 47. 11 specimens. Univ. of Cal. collection.
Univ. of Cal. station 47. 2 specimens. Cat. No. 160115, U.S.N.M.
Univ. of Cal. station 47. 1 specimen. Cat. No. 105469, U.S.N.M.
Off Coronado Island, Cal.: U.S.B.F. station 2932, 20 fathoms, gray sand and broken shell bottom; bottom temperature 58°. 1 specimen. Cat. No. 168685, U.S.N.M.
Point Abrejos, Lower California: 2 specimens (1=type). Cat. No. 105483, U.S.N.M.
- ODOSTOMIA (IOLAEA) EUCOSMIA** Dall and Bartsch.
San Pedro, Cal.: 32 specimens. Cat. No. 129294, U.S.N.M.
1 specimen. Cat. No. 153091, U.S.N.M.
27 specimens. Oldroyd collection.
Arch Beach, Cal.: 2 specimens. Univ. of Cal. collection.
San Diego, Cal.: 2 specimens. Kelsey collection.
2 specimens. Cat. No. 105469 U.S.N.M.
San Diego, Sandspit, Cal.: 1 specimen. Cooke collection.
South end Coronado Island, Cal.: 7 specimens. 7-10 fathoms. Baker collection.
Todos Santos Bay, Lower California: 1 specimen. Cat. No. 46175, U.S.N.M.
Point Abrejos, Lower California: 1 specimen, type. Cat. No. 106501, U.S.N.M.
1 specimen. Cat. No. 105483, U.S.N.M.
- ODOSTOMIA (IOLAEA) DELICATULA** Carpenter.
Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 4102, U.S.N.M.
- ODOSTOMIA (MENESTHO) GRAMMATOSPIRA** Dall and Bartsch.
Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 161625, U.S.N.M.
- ODOSTOMIA (MENESTHO) PHARCIDA** Dall and Bartsch.
Cumshewa Inlet, Queen Charlotte Island, British Columbia: 1 specimen, type. 10-15 fathoms. Cat. No. 107440, U.S.N.M.
- ODOSTOMIA (MENESTHO) EXARA** Dall and Bartsch.
Pacific Grove, Monterey, Cal.: 1 specimen, type. Cat. No. 196250, U.S.N.M.
- ODOSTOMIA (MENESTHO) ZIZIPHINA** Carpenter.
Mazatlan, Mexico: 1 specimen. Tablet 1967, Liverpool collection, British Museum.
- ODOSTOMIA (MENESTHO) RECTA** De Folin.
Margarita Island, Panama Bay: 1 specimen, type. De Folin collection.
- ODOSTOMIA (MENESTHO) GLORIOSA** Bartsch.
San Diego, Cal.: 1 specimen, type. Cat. No. 211561, U.S.N.M.
San Hipolito Point, Lower California: 1 specimen, Kelsey collection.
- ODOSTOMIA (MENESTHO) AMILDA** Dall and Bartsch.
San Diego, Cal.: 1 specimen, type. Cat. No. 60905, U.S.N.M.
Round Island, Lower California: 2 specimens. Cat. No. 206907, U.S.N.M.
- ODOSTOMIA (MENESTHO) CALLIPYRGA** Dall and Bartsch.
Margarita Island, Bay of Panama: 1 specimen, type. De Folin collection.
- ODOSTOMIA (MENESTHO) EXCISA** Bartsch.
Catalina Island, Cal.: 1 specimen, type. Cat. No. 194518, U.S.N.M.
- ODOSTOMIA (MENESTHO) FARMA** Dall and Bartsch.
Catalina Island, Cal.: 1 specimen, type. Cat. No. 206908, U.S.N.M.
- ODOSTOMIA (MENESTHO) ENORA** Dall and Bartsch.
San Pedro, Cal.: 3 specimens (1=type). Cat. No. 207126, U.S.N.M.

ODOSTOMIA (MENESTHO) CHILENSIS Dall and Bartsch.

U. S. B. F. steamer *Albatross* at Tome, Chile: 1 specimen, type. Cat. No. 109363, U.S.N.M.

ODOSTOMIA (MENESTHO) FETELLA Dall and Bartsch.

Long Beach, Cal.: 10 specimens. Cat. No. 127053, U.S.N.M.

San Pedro, Cal.: 12 specimens. Cat. No. 126625, U.S.N.M.

1 specimen. Cat. No. 46498, U.S.N.M.

150 specimens. Cat. No. 208068, U.S.N.M.

4 specimens. Oldroyd collection.

San Diego, Cal.: 4 specimens. Univ. of Cal. collection.

4 specimens. Kelsey collection.

125 specimens (1=type). Cat. No. 46478, U.S.N.M.

8 specimens. Cat. No. 46477, U.S.N.M.

(Foot of Ash St.). 1 specimen. Oldroyd collection.

San Ignacio Lagoon, Lower California: 1 specimen. Cat. No. 106520, U.S.N.M.

ODOSTOMIA (MENESTHO) HYPOCURTA Dall and Bartsch.

Off Bristol Bay, Bering Sea, Alaska: U. S. B. F. station 3306, 33 fathoms, fine gray sand bottom, bottom temperature 38.9°. 1 specimen, type. Cat. No. 168660, U.S.N.M.

ODOSTOMIA (MENESTHO) AEQUISCULPTA Carpenter.

Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 16221, U.S.N.M.

ODOSTOMIA (MENESTHO) HARFORDENSIS Dall and Bartsch.

Port Harford, Cal.: 1 specimen, type. Cat. No. 196299, U.S.N.M.

ODOSTOMIA (MENESTHO) SUBLIRULATA Carpenter.

Mazatlan, Mexico: 1 specimen, type. Tablet 1952, Liverpool collection, British Museum.

ODOSTOMIA (EVALEA) NUNIVAKENSIS Dall and Bartsch.

North end of Nunivak Island, Alaska: 1 specimen. Cat. No. 159476, U.S.N.M.

ODOSTOMIA (EVALEA) KILLISNOOENSIS Dall and Bartsch.

Killisnoo, Alaska: 1 specimen, type. Cat. No. 159457, U.S.N.M.

3 specimens. Cat. No. 205214, U.S.N.M.

ODOSTOMIA (EVALEA) YOUNGI Dall and Bartsch.

Ship channel, Barkley Sound, British Columbia: 1 specimen. 18-20 fathoms. Cat. No. 211542, U.S.N.M.

1 specimen. 18-20 fathoms.

Can. Geol. Sur. Museum collection, Ottawa.

ODOSTOMIA (EVALEA) THEA Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 211556, U.S.N.M.

ODOSTOMIA (EVALEA) CALLIOPE Bartsch

Off Point La Jolla, Cal.: U. S. B. F. station 4322, 110 to 199 fathoms, green mud and shell bottom. 1 specimen, type. Cat. No. 211557, U.S.N.M.

ODOSTOMIA (EVALEA) CALCARELLA Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom; bottom temperature 55.1°. 1 specimen, type. Cat. No. 211587, U.S.N.M.

ODOSTOMIA (EVALEA) TILLAMOOKENSIS Dall and Bartsch.

Off Tillamook, Oregon: U. S. B. F. station 3346, 786 fathoms, green mud bottom; bottom temperature 37.3°. 1 specimen. Cat. No. 196244, U.S.N.M.

ODOSTOMIA (EVALEA) ESILDA Dall and Bartsch.

Off San Diego, Cal.: U. S. B. F. station 2936, 359 fathoms, mud bottom; bottom temperature 49°. 1 specimen, type. Cat. No. 206909, U.S.N.M.

ODOSTOMIA (EVALEA) SPREADBOROUGHII Dall and Bartsch.

Ship channel, Barkley Sound, British Columbia: 2 specimens 18-20 fathoms.
Can. Geol. Sur. Museum,
Ottawa.

1 specimen, type. 18-20 fathoms.
Cat. No. 211541, U.S.N.M.

ODOSTOMIA (EVALEA) VANCOUVERENSIS Dall and Bartsch.

Ship channel, Barkley Sound, British Columbia: 3 specimens (1=type). 18-20 fathoms. Cat. No. 211539, U.S.N.M.

4 specimens. 18-20 fathoms.
Can. Geol. Sur. Museum,
Ottawa.

ODOSTOMIA (EVALEA) ALEUTICA Dall and Bartsch.

Off Iliuliuk Harbor, Bering Sea, Alaska: U. S. B. F. station 3336, 55 fathoms, black sand bottom, bottom temperature 41.6°. 14 specimens. (Description based upon two of this lot.) Cat. No. 205179, U.S.N.M.

Captains' Harbor, Unalaska, Alaska: 1 specimen. 25 fathoms. Cat. No. 159464, U.S.N.M.

Amaknak Island, Unalaska, Alaska: 1 specimen. Cat. No. 160958, U.S.N.M.

ODOSTOMIA (EVALEA) KADIAKENSIS Dall and Bartsch.

Kadiak Island, Alaska: 2 specimens (1=type). Cat. No. 159470, U.S.N.M.

ODOSTOMIA (EVALEA) QUADRÆ Dall and Bartsch.

Ship channel, Barkley Sound, British Columbia: 26 specimens (1=type). 18-20 fathoms. Cat. No. 211540, U.S.N.M.

27 specimens. 18-20 fathoms.
Can. Geol. Sur. Museum,
Ottawa.

ODOSTOMIA (EVALEA) CALLIMENE Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 211555, U.S.N.M.

ODOSTOMIA (EVALEA) HERILDA Dall and Bartsch.

Off San Diego, Cal.: 1 specimen, type. Cat. No. 206910, U.S.N.M.

ODOSTOMIA (EVALEA) CYPRIA Dall and Bartsch.

Skidegate, British Columbia: 1 specimen, type. Can. Geol. Sur. collection.

ODOSTOMIA (EVALEA) HYPATIA Dall and Bartsch.

Skidegate, British Columbia: 1 specimen, type. Can. Geol. Sur. collection.

ODOSTOMIA (EVALEA) TENUIS Carpenter.

Mazatlan, Mexico: 1 specimen. Tablet 1958, Liverpool collection, British Museum.

ODOSTOMIA (EVALEA) VALDEZI Dall and Bartsch.

Barkley Sound, British Columbia: 5 specimens. Can. Geol. Sur. collection.

5 specimens. Cat. No. 211575, U.S.N.M. collection.

Orcas Island, Puget Sound, Wash.: 1 specimen. Baker collection.

Off Del Monte, Monterey, Cal.: 2 specimens (1=type). 12 fathoms. Cat. No. 196249, U.S.N.M.

2 specimens. Berry collection.

ODOSTOMIA (EVALEA) NEMO Dall and Bartsch.

San Pedro, Cal.: 5 specimens. Cat. No. 126626, U.S.N.M.

15 specimens. Cat. No. 206912, U.S.N.M.

29 specimens. Oldroyd collection.

San Diego, Cal.: Univ. of Cal. station 1. 2 specimens. Univ. of Cal. collection.
1 specimen, type. Cat. No. 206911, U.S.N.M.

ODOSTOMIA (EVALEA) IO Dall and Bartsch.

Santa Barbara Channel, Cal.: 2 specimens. 6 fathoms. Cat. No. 107741, U.S.N.M.

Santa Rosa Island, Cal.: 2 specimens (1=type). Cat. No. 56770, U.S.N.M.

San Pedro, Cal.: 1 specimen. Cat. No. 15316, U.S.N.M.

Off Santa Catalina Island, Cal.: Univ. of Cal. station 30. 1 specimen. Univ. of Cal. collection.

San Diego, Cal.: 1 specimen. Gripp collection.

2 specimens. Kelsey collection.

Point Loma, San Diego, Cal.: 1 specimen. Kelsey collection.

ODOSTOMIA (EVALEA) BARKLEYENSIS Dall and Bartsch.

Barkley Sound, British Columbia: 2 specimens (1=type). 18-20 fathoms.
Cat. No. 211543, U.S.N.M.

3 specimens. 18-20 fathoms. Can. Geol.
Sur. collection.

ODOSTOMIA (EVALEA) PRATOMA Dall and Bartsch.

Off Santa Rosa Island, Cal.: U.S.B.F. station 2902, 53 fathoms, fine gray sand
and mud bottom; bottom temperature 45°. 22 specimens (1=type). Cat. No. 206913,
U.S.N.M.

U.S.B.F. station 2901, 48 fathoms, gray sand and
mud bottom; bottom temperature 55.1°. 15
specimens. Cat. No. 206914, U.S.N.M.

ODOSTOMIA (EVALEA) COOKEANA Bartsch.

Ellamar, Alaska: 2 specimens. Cat. No. 208427, U.S.N.M.

ODOSTOMIA (EVALEA) SEPTENTRIONALIS Dall and Bartsch.

Unalaska, Alaska: 3 specimens (1=type). Cat. No. 159462, U.S.N.M.

ODOSTOMIA (EVALEA) CAPITANA Dall and Bartsch.

St. Paul, Kadiak Island, Alaska: 1 specimen. 12 fathoms. Cat. No. 159468,
U.S.N.M.

Captains' Harbor, Unalaska, Alaska: 1 specimen, type. Cat. No. 159464b,
U.S.N.M.

ODOSTOMIA (EVALEA) JEWETTI Dall and Bartsch.

Santa Barbara, Cal.: 2 specimens, cotypes. Cat. No. 15521c, U.S.N.M.

ODOSTOMIA (EVALEA) INFLATA Carpenter.

Orcas Island, Puget Sound, Wash.: 1 specimen. Baker collection.

Neah Bay, Wash.: 2 specimens (1=type). Cat. No. 15521b, U.S.N.M.

ODOSTOMIA (EVALEA) COLUMBIANA Dall and Bartsch.

Off Fort Rupert, Vancouver Island, British Columbia: U.S.B.F. station 4203,
2-30 fathoms, volcanic, shell, gravel, broken shell, and sponge bottom; bottom
temperature 49.1°. 1 specimen. Cat. No. 196246, U.S.N.M.

Victoria, Vancouver Island, British Columbia: 6 specimens (1=type). Cat. No.
126658, U.S.N.M.

Off Port Townsend, Wash.: U.S.B.F. station 4213, 23-25 fathoms, gray sand,
broken shell and rocky bottom; bottom temperature 51°. 3 specimens. Cat.
No. 196245, U.S.N.M.

ODOSTOMIA (EVALEA) UNALASKENSIS Dall and Bartsch.

Captains' Harbor, Unalaska, Alaska: 1 specimen, type. Cat. No. 150464a.

ODOSTOMIA (EVALEA) ATOSSA Dall.

San Pedro, Cal.: 2 specimens (1=type). Cat. No. 110637, U.S.N.M.

ODOSTOMIA (EVALEA) OBESA Dall and Bartsch.

San Pedro, Cal.: 9 specimens (1=type). Cat. No. 206915, U.S.N.M.

ODOSTOMIA (EVALEA) LUCASANA Dall and Bartsch.

Cape St. Lucas, Lower California: 1 specimen, type. Cat. No. 16220, U.S.N.M.

ODOSTOMIA (EVALEA) PHANEA Dall and Bartsch.

Monterey, Cal.: 1 specimen, type. Cat. No. 46488, U.S.N.M.

1 specimen. Cat. No. 46474, U.S.N.M.

1 specimen. Cat. No. 46479, U.S.N.M.

2 specimens. Cat. No. 159459, U.S.N.M.

1 specimen. Cat. No. 46496, U.S.N.M.

1 specimen. Univ. of Cal. collection.

3 specimens. Button collection.

ODOSTOMIA (EVALEA) PHANELLA Dall and Bartsch.

San Pedro Bay, Cal.: 1 specimen, type. Cat. No. 196348, U.S.N.M.

La Jolla, Cal.: 1 specimen. Cat. No. 162676, U.S.N.M.

Ballast Point, San Diego, Cal.: 1 specimen. Cat. No. 152324, U.S.N.M.

ODOSTOMIA (EVALEA) SANTAROSANA Dall and Bartsch.

Santa Rosa Island, Cal.: 1 specimen, type. Cat. No. 56770, U.S.N.M.

ODOSTOMIA (EVALEA) TENUISCULPTA Carpenter.

Barkley Sound, British Columbia: 1 specimen. Can. Geol. Sur. collection.

1 specimen. Cat. No. 211577, U.S.N.M.

Neah Bay, Wash.: 1 specimen, type. Cat. No. 15520, U.S.N.M.

2 specimens (1 figured). Cat. No. 46483, U.S.N.M.

Little River, Mendocino County, Cal.: 75 specimens. Cat. No. 46486, U.S.N.M.

Gualala, Mendocino County, Cal.: 6 specimens. Cat. No. 101945, U.S.N.M.

Oakland, Cal.: 21 specimens. Cat. No. 46484, U.S.N.M.

San Francisco, Cal.: 2 specimens. Cat. No. 74006, U.S.N.M.

2 specimens. Univ. of Cal. collection.

Santa Cruz, Cal.: 3 specimens. Oldroyd collection.

Monterey, Cal.: 30 specimens. Cat. No. 46482, U.S.N.M.

30 specimens. Cat. No. 46493, U.S.N.M.

30 specimens. Cat. No. 46485, U.S.N.M.

31 specimens. Cat. No. 46489, U.S.N.M.

2 specimens. Cat. No. 46491, U.S.N.M.

4 specimens. Cat. No. 46476, U.S.N.M.

1 specimen. Cat. No. 159475, U.S.N.M.

17 specimens. Cat. No. 159477, U.S.N.M.

5 specimens. Cat. No. 159478, U.S.N.M.

13 specimens. Cat. No. 159479, U.S.N.M.

1 specimen. Cat. No. 159480, U.S.N.M.

4 specimens. Univ. of Cal. collection.

Port Harford, Cal.: 1 specimen. Cat. No. 196247, U.S.N.M.

Santa Barbara, Cal.: 15 specimens. Berry collection.

San Miguel Island, Cal.: 1 specimen. Cat. No. 56680, U.S.N.M.

Long Beach, Cal.: 1 specimen. Lowe collection.

Off San Pedro, Cal.: Univ. of Cal. station 83. 2 specimens. Univ. of Cal. collection.

San Pedro Bay, Cal.: 2 specimens. Berry collection.

San Pedro, Cal.: 5 specimens, 1 young. Baldrige collection.

Newport, Cal.: Univ. of Cal. station 20. 9 specimens. Univ. of Cal. collection.

Arch Beach, Cal.: Univ. of Cal. station 50. 1 specimen. Univ. of Cal. collection.

San Diego, Cal.: (Foot of Ash St.) 1 specimen. Oldroyd collection.

4 specimens. Cat. No. 60907, U.S.N.M.

Off San Diego, Cal.: 1 specimen. 20 fathoms. Kelsey collection.
California: 42 specimens. Univ. of Cal. collection.
Round Island, Lower California: 2 specimens. Hemphill collection.
Lower California: (Type of *straminea* Carpenter.) 1 specimen. Cat. No. 15561, U.S.N.M.

ODOSTOMIA (EVALEA) ANGULARIS Dall and Bartsch.

Sitka Harbor, Alaska: 5 specimens. Cat. No. 159474, U.S.N.M.
Nanaimo, British Columbia: 5 specimens (1=type). Cat. No. 150565, U.S.N.M.
Barkley Sound, British Columbia: 20 specimens. U.S.N.M.
21 specimens. Can. Geol. Sur. collection.
Victoria, Vancouver Sound, British Columbia: 3 specimens. Cat. No. 126664, U.S.N.M.
Puget Sound, Wash.: 1 specimen. Cat. No. 43384, U.S.N.M.
Del Monte, Monterey Bay, Cal.: 18 specimens. 12 fathoms. Berry collection.
Port Harford, Cal.: 4 specimens. Cat. No. 161624, U.S.N.M.
Off middle California: U.S.B.F. station 3194, 92 fathoms, gray sand bottom; bottom temperature 45.9°. 1 specimen. Cat. No. 196300, U.S.N.M.

ODOSTOMIA (EVALEA) SOCORROENSIS Dall and Bartsch.

Socorro Island, Mexico: 85 specimens (1=type). Cat. No. 153024, U.S.N.M.

ODOSTOMIA (EVALEA) BALDRIDGEAE Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 211558, U.S.N.M.
1 specimen (young). Baldrige collection.

ODOSTOMIA (EVALEA) DONILLA Dall and Bartsch.

San Pedro, Cal.: 3 specimens. Oldroyd collection.
9 specimens (1=type). Cat. No. 126626, U.S.N.M.
6 specimens (young). Baldrige collection.
Ballast Point, San Diego, Cal.: 2 specimens. Cat. No. 152324, U.S.N.M.
San Diego, Cal.: 8 specimens. Oldroyd collection.
3 specimens. Kelsey collection.
Todos Santos Bay, Lower California: 1 specimen. Cat. No. 46497, U.S.N.M.
2 specimens. Cat. No. 46470, U.S.N.M.

ODOSTOMIA (EVALEA) CALIFORNICA Dall and Bartsch.

Ocean Beach, San Diego, Cal.: 1 specimen, type. Cat. No. 206916, U.S.N.M.
San Diego, Cal.: 1 specimen. Cat. No. 153056, U.S.N.M.
1 specimen. Kelsey collection.
Off South Coronado Island, Cal.: 3 specimens. 3 fathoms. Baker collection.

ODOSTOMIA (EVALEA) SERILLA Dall and Bartsch.

San Pedro, Cal.: 1 specimen. Oldroyd collection.
San Diego, Cal.: 1 specimen. 15 fathoms. Gripp collection.
Off San Diego, Cal.: Univ. of Cal. station 59. 1 specimen, type. Cat. No. 206917, U.S.N.M.

ODOSTOMIA (EVALEA) TACOMAENSIS Dall and Bartsch.

Tacoma, Wash.: 1 specimen, type. Cat. No. 159267, U.S.N.M.

ODOSTOMIA (EVALEA) AMCHITKANA Dall and Bartsch.

Constantine Harbor, Amchitka Island, Alaska: 2 specimens (1=type). Cat. No. 161088, U.S.N.M.
Ellamar, Alaska: 1 specimen. Cat. No. 208426, U.S.N.M.
3 specimens. Baker collection.
Bear Bay, Peril Straits, Alaska: 4 specimens. Stephens collection.
2 specimens. Cat. No. 204013, U.S.N.M.

ODOSTOMIA (EVALEA) STEPHENSI Dall and Bartsch.

- Bear Bay, Peril Straits, Alaska: 3 specimens (1=type). Cat. No. 204010 U.S.N.M.
6 specimens. Stephens collection.
Barkley Sound, British Columbia: 30 specimens. Can. Geol. Survey collection.
28 specimens. Cat. No. 211576, U.S.N.M.
Skidegate, British Columbia: 1 specimen. Cat. No. 220119, U.S.N.M.
2 specimens. Can. Geol. Sur. collection.

ODOSTOMIA (EVALEA) CLESSINI Dall and Bartsch.

- Hawk Inlet, Admiralty Island, Alaska: 2 specimens. Cat. No. 204015, U.S.N.M.
3 specimens. Stephens collection.
Bear Bay, Peril Straits, Alaska: 7 specimens. Stephens collection.
2 specimens (1=type). Cat. No. 204014, U.S.N.M.
Mole Harbor, Admiralty Island, Alaska: 1 specimen. Stephens collection.
Sitka, Alaska: 2 specimens. Cat. No. 159461, U.S.N.M.

ODOSTOMIA (EVALEA) MINUTISSIMA Dall and Bartsch.

- San Diego, Cal.: 6 specimens (1=type). Cat. No. 206918, U.S.N.M.
San Hipolito Point, Lower California: 2 specimens. Cat. No. 206919, U.S.N.M.
Point Abrejos, Lower California: 3 specimens. Cat. No. 105484, U.S.N.M.

ODOSTOMIA (EVALEA) RAYMONDI Dall and Bartsch.

- Off Catalina Island, Cal.: Univ. of Cal. station 30. 1 specimen, type. Cat. No.
206920, U.S.N.M.
Univ. of Cal. station 30. 1 specimen, topotype. Univ.
of Cal. collection.

ODOSTOMIA (EVALEA) GRAVIDA Gould.

- Santa Barbara, Cal.: 1 specimen, type. Cat. No. 44, Orig. No. 24, A. 31, 10,
State Museum, Albany, N. Y.

ODOSTOMIA (EVALEA) NOTILLA Dall and Bartsch.

- Off Catalina Island, Cal.: Univ. of Cal. station 30. 1 specimen, type. Cat. No.
206921, U.S.N.M.
Univ. of Cal. station 30. 1 specimen, topotype. Univ.
of Cal. collection.

ODOSTOMIA (EVALEA) MOVILLA Dall and Bartsch.

- Off San Diego, Cal.: U.S.B.F. station 2936, 359 fathoms, mud bottom; bottom tem-
perature 49°. 8 specimens (1=type). Cat. No. 206922, U.S.N.M.

ODOSTOMIA (EVALEA) ALTINA Dall and Bartsch.

- Off San Diego, Cal.: U.S.B.F. station 2936, 359 fathoms, mud bottom; bottom
temperature 49°. 3 specimens (1=type). Cat. No. 206923, U.S.N.M.

ODOSTOMIA (EVALEA) PROFUNDICOLA Dall and Bartsch.

- Off Point Vincente, Cal.: Univ. of Cal. station 13. 1 specimen. Univ. of Cal.
collection.
Off San Diego, Cal.: U.S.B.F. station 2936, 359 fathoms, mud bottom; bottom tem-
perature 49°. 9 specimens (1=type). Cat. No. 206924, U.S.N.M.

ODOSTOMIA (EVALEA) BARANOFFENSIS Dall and Bartsch.

- Mole Harbor, Admiralty Island, Alaska: 1 specimen. Cat. No. 204012, U.S.N.M.
1 specimen. Stephens collection.
Bear Bay, Peril Straits, Baranof Island, Alaska: 2 specimens. Stephens collec-
tion.
1 specimen, type. Cat. No.
204011, U.S.N.M.

ODOSTOMIA (EVALEA) SITKAENSIS Clessin.

- Sitka, Alaska: 2 specimens. Cat. No. 26232, Berlin Museum collection.

ODOSTOMIA (EVALEA) HAGEMEISTERI Dall and Bartsch.

- Hagemeister Island, Bering Sea: 1 specimen, type. Cat. No. 159469, U.S.N.M.

ODOSTOMIA (EVALEA) SKIDEGATENSIS Bartsch.

- Skidegate, British Columbia: Can. Geol. Sur. station 5. 2 specimens, cotypes.
Can. Geol. Sur. collection.
Can. Geol. Sur. station 5. 1 specimen. Cat. No. 220116, U.S.N.M.
Can. Geol. Sur. station 4. 1 specimen. Cat. No. 220117, U.S.N.M.
Can. Geol. Sur. station 4. 1 specimen. Can. Geol. Sur. collection.
Can. Geol. Sur. station 2. 1 specimen. Can. Geol. Sur. collection.
Can. Geol. Sur. station 2. 1 specimen. Cat. No. 220118, U.S.N.M.

ODOSTOMIA (EVALEA) RESINA Dall and Bartsch.

- Arch Beach, Cal.: 1 specimen. Cat. No. 206925, U.S.N.M.

ODOSTOMIA (EVALEA) DELICIOSA Dall and Bartsch.

- Barkley Sound, British Columbia: 1 specimen. Can. Geol. Sur. collection.
Ballard Beach, Seattle, Wash.: 1 specimen. Baker collection.
Monterey, Cal.: 1 specimen, type. Cat. No. 46492, U.S.N.M.
1 specimen. Cat. No. 196301, U.S.N.M.

ODOSTOMIA (EVALEA) PARELLA Dall and Bartsch.

- Near the Galapagos Islands, South America: U.S.B.F. station 2808, 634 fathoms, coral and sand bottom; bottom temperature 39.9°. 1 specimen, type. Cat. No. 206926, U.S.N.M.

ODOSTOMIA (EVALEA) GRANADENSIS Dall and Bartsch.

- Off Panama Bay: U.S.B.F. station 2794, 62 fathoms, gray sand, black specks and broken-shell bottom; bottom temperature 59.6°. 1 specimen, type. Cat. No. 206927, U.S.N.M.

ODOSTOMIA (EVALEA) PALMERI Bartsch.

- Gulf of California: 2 specimens (1=type). Cat. No. 198903, U.S.N.M.

ODOSTOMIA (EVALEA) CASSANDRA Bartsch.

- Skidegate, British Columbia: 1 specimen, cotype. Can. Geol. Sur. collection.
1 specimen, cotype. Cat. No. 220120, U.S.N.M.

ODOSTOMIA (AMAURA) LASTRA Dall and Bartsch.

- Santa Catalina Channel, Cal.: 1 specimen. Cat. No. 170794, U.S.N.M.
Off Catalina Island, Cal.: Univ. of Cal. station 21 (3). 1 specimen. Univ. of Cal. collection.
Univ. of Cal. station 30. 1 specimen. Univ. of Cal. collection.
Off San Diego, Cal.: Univ. of Cal. station 81. 1 specimen. Univ. of Cal. collection.
Off Southern California: U.S.B.F. station 2917, 90 fathoms, fine gray sand and broken shell bottom; bottom temperature 49.1°. 1 specimen, type. Cat. No. 206928, U.S.N.M.

ODOSTOMIA (AMAURA) KENNERLEYI Dall and Bartsch.

- Nanaimo, British Columbia: 1 specimen, type. Cat. No. 150564, U.S.N.M.
Barkley Sound, British Columbia: 13 specimens. Cat. No. 211582, U.S.N.M.
15 specimens. Can. Geol. Sur. collection.
Puget Sound, Wash.: 2 specimens. Cat. No. 4493b, U.S.N.M.
1 specimen. Cat. No. 184258, U.S.N.M.
Seattle, Wash.: 1 specimen. Cat. No. 129121, U.S.N.M.
Off Pt. Pinos Light, California: U.S.B.F. station 4474, 34-43 fathoms, hard sand and mud bottom. 1 specimen. Cat. No. 208507, U.S.N.M.

ODOSTOMIA (AMAURA) ELSA Dall and Bartsch.

Kadiak Island, Alaska: 1 specimen, type. Cat. No. 55811, U.S.N.M.

ODOSTOMIA (AMAURA) BERINGI Dall.

St. Michael, Norton Sound, Alaska: 1 specimen, type. Cat. No. 169456, U.S.N.M.

ODOSTOMIA (AMAURA) SUBGLOBOSA Bartsch.

San Diego, Cal.: 1 specimen, type. Cat. No. 211560, U.S.N.M.
1 specimen. Kelsey collection.

ODOSTOMIA (AMAURA) SATURA Carpenter.

Neah Bay, Wash.: 1 specimen, type. Cat. No. 15520, U.S.N.M.
1 specimen. Cat. No. 15520a, U.S.N.M.

ODOSTOMIA (AMAURA) HELENA Bartsch.

San Pedro, Cal.: 1 specimen, type. Cat. No. 249904, U.S.N.M.

ODOSTOMIA (AMAURA) GRIPPIANA Bartsch.

Nanaimo, British Columbia: 1 specimen, type. Cat. No. 211559, U.S.N.M.

ODOSTOMIA (AMAURA) FARALLONENSIS Dall and Bartsch.

Off the Farallones Islands, Cal.: U.S.B.F. station 3180, 24 fathoms, fine gray sand bottom; bottom temperature 50.7°. 1 specimen, type. Cat. No. 168827, U.S.N.M.

ODOSTOMIA (AMAURA) SILLANA Dall and Bartsch.

West of Amaknak Island, Unalaska: 1 specimen, type. 60 fathoms. Cat. No. 168809, U.S.N.M.

ODOSTOMIA (AMAURA) TALPA Dall and Bartsch.

Mole Harbor, Alaska: 1 specimen, type. Cat. No. 204027, U.S.N.M.
2 specimens. Stephens collection.

Sitka Harbor, Alaska: 2 specimens. 12 fathoms. Cat. No. 159472, U.S.N.M.

ODOSTOMIA (AMAURA) KRAUSEI Clessin.

Killisnoo, Alaska: 1 specimen, type. Cat. No. 36335, Berlin Museum.
1 specimen. Cat. No. 159454, U.S.N.M.
Kadiak, Alaska: 1 specimen. Cat. No. 159471, U.S.N.M.

ODOSTOMIA (AMAURA) ELDORANA Bartsch.

Kadiak Island, Alaska; 2 specimens (1=type). Cat. No. 34246, U.S.N.M.

ODOSTOMIA (AMAURA) ORCIA Dall and Bartsch.

Santa Rosa Island, Cal.: 1 specimen, type. Cat. No. 206929, U.S.N.M.
San Diego, Cal.: 1 specimen. Kelsey collection.

ODOSTOMIA (AMAURA) GOULDI Carpenter.

Neah Bay, Wash.: 1 specimen. Cat. No. 22821, U.S.N.M.

ODOSTOMIA (AMAURA) ARCTICA Dall and Bartsch.

Sea-Horse Islands, Arctic Ocean: 1 specimen. Cat. No. 109454, U.S.N.M.
Off Icy Cape, Arctic Ocean: 4 specimens. 15 fathoms. Cat. No. 168807, U.S.N.M.
1 specimen. 7-15 fathoms. Cat. No. 168808, U.S.N.M.
2 specimens. Cat. No. 87863, U.S.N.M.

Southwest of Hagemeister Island, Bering Sea, Alaska: U.S.B.F. station 3305, 23 fathoms, fine gray sand bottom; bottom temperature 41.8°. 2 specimens (1=type). Cat. No. 168766, U.S.N.M.

Off Bristol Bay, Bering Sea: U.S.B.F. station 3306, 33 fathoms, fine gray sand bottom; bottom temperature 38.9°. 8 specimens. Cat. No. 87863, U.S.N.M.

ODOSTOMIA (AMAURA) AVELLANA Carpenter.

Neah Bay, Wash.: 1 specimen, type. Cat. No. 15517b, U.S.N.M.

ODOSTOMIA (AMAURA) MORATORA Dall and Bartsch.

Point Reyes, Cal.: U.S.B.F. station 3164, 61 fathoms, rocky bottom; bottom temperature 48.5°. 1 specimen, type. Cat. No. 207261, U.S.N.M.

ODOSTOMIA (AMAURA) PESA Dall and Bartsch.

Kadiak Island, Alaska: 1 specimen, type. Cat. No. 157458, U.S.N.M.

ODOSTOMIA (AMAURA) NOTA Dall and Bartsch.

Off Santa Rosa Island, Cal.: U.S.B.F. station 2901, 48 fathoms, gray sand and mud bottom; bottom temperature 55.1°. 9 specimens. Cat. No. 206930, U.S.N.M.

San Pedro, Cal.: 4 specimens. Cat. No. 168804, U.S.N.M.

7 specimens. Oldroyd collection.

1 specimen. Berry collection.

Off Newport, Cal.: Univ. of Cal. station 20. 8 specimens. Univ. of Cal. collection.

Off Catalina Island, Cal.: Univ. of Cal. station 32. 5 specimens. Univ. of Cal. collection.

Univ. of Cal. station 34. 5 specimens. Univ. of Cal. collection.

Univ. of Cal. station 36. 3 specimens. Univ. of Cal. collection.

Pacific Beach, Cal.: 2 specimens. Kelsey collection.

Ocean Beach, Cal.: 2 specimens. Kelsey collection.

San Diego, Cal.: 3 specimens. Kelsey collection.

4 specimens. Gripp collection.

17 specimens (1=type). Cat. No. 46490, U.S.N.M.

Univ. of Cal. station 47. 3 specimens. Univ. of Cal. collection.

ODOSTOMIA (AMAURA) ILIULIUKENSIS Dall and Bartsch.

Iliuliuk Village, Captains' Bay, Unalaska, Alaska: 1 specimen, type. 6 fathoms. Cat. No. 159463, U.S.N.M.

Eider Cove, Captains' Bay, Unalaska, Alaska: 10 specimens. 25 fathoms. Cat. No. 159453, U.S.N.M.

Unalaska, Alaska: 1 specimen. Cat. No. 159465, U.S.N.M.

ODOSTOMIA (AMAURA) NUCIFORMIS Carpenter.

Neah Bay, Wash.: 1 specimen, type. Cat. No. 15517a, U.S.N.M.

ODOSTOMIA (AMAURA) CANFIELDI Dall.

Barkley Sound, British Columbia: 3 specimens. Can. Geol. Sur. collection.
2 specimens. Cat. No. 211583, U.S.N.M.

Monterey, Cal.: 1 specimen, type. Cat. No. 46473, U.S.N.M.

4 specimens. Cat. No. 46475, U.S.N.M.

2 specimens. Cat. No. 159451, U.S.N.M.

5 specimens. Cat. No. 159454, U.S.N.M.

1 specimen. Cat. No. 168803, U.S.N.M.

2 specimens. Univ. of Cal. collection.

Del Monte, Monterey Bay, Cal.: ? specimens. 12 fathoms. Berry collection.

San Pedro, Cal.: 2 specimens. Cat. No. 168799, U.S.N.M.

7 specimens. Oldroyd collection.

Pacific Beach, San Diego, Cal.: 2 specimens. Cat. No. 168806, U.S.N.M.

San Diego, Cal.: 1 specimen. Cat. No. 168800, U.S.N.M.

2 specimens. Kelsey collection.

ODOSTOMIA (AMAURA) SUBTURRITA Dall and Bartsch.

Off Santa Rosa Island, Cal.: U. S. B. F. station 2901, 48 fathoms, gray sand and mud bottom; bottom temperature 55.1°. 1 specimen. Cat. No. 206931, U.S.N.M.

Redondo, Cal.: Univ. of Cal. station 12. 1 specimen. Univ. of Cal. collection.

- San Pedro, Cal.: 5 specimens. Cat. No. 206932, U.S.N.M.
10 specimens (1=type). Cat. No. 168801, U.S.N.M.
8 specimens. Oldroyd collection.
6 specimens (4 young). Baldrige collection.
Santa Barbara, Cal.: 2 specimens. Univ. of Cal. collection.
Pacific Beach, San Diego, Cal.: 2 specimens. Cat. No. 206933, U.S.N.M.
Point Loma, San Diego, Cal.: 3 specimens. Kelsey collection.
San Diego, Cal.: 3 specimens. Cat. No. 105535, U.S.N.M.
? specimens. Gripp collection.
Todos Santos Bay, Lower California: 1 specimen. Cat. No. 46472, U.S.N.M.
Lower California: 2 specimens. Baldrige collection.

ODOSTOMIA (AMAURA) MARTENSI Dall and Bartsch.

- Killisnoo, Alaska: 1 specimen, type. Cat. No. 38335, Berlin Museum.

ODOSTOMIA (SCALENOSTOMA) DOTELLA Dall and Bartsch.

- Off Cerralvo Island, Gulf of California: U. S. B. F. stations 2826-2828, $9\frac{1}{2}$ to 10 fathoms, shell bottom. 7 specimens (1=type). Cat. No. 206934, U.S.N.M.

- Off La Paz, Gulf of California: U. S. B. F. station 2823, $26\frac{1}{2}$ fathoms, broken shell bottom. 6 specimens. Cat. No. 206935, U.S.N.M.

- U. S. B. F. station 2822, 21 fathoms, gray sand and broken shell bottom 1 specimen Cat. No. 206936, U.S.N.M.

ODOSTOMIA (SCALENOSTOMA) BABYLONIA Bartsch.

- San Hipolito Point, Lower California: 2 specimens (1=type). Cat. No. 127542 U.S.N.M.

ODOSTOMIA (SCALENOSTOMA) RANGII De Folin.

- Bay of Panama?: 1 specimen, type. De Folin collection.

ODOSTOMIA (HEIDA) KELSEYI Bartsch.

- San Diego, Cal.: 1 specimen, type. Cat. No. 211544, U.S.N.M.
1 specimen. Kelsey collection.

ODOSTOMIA (HEIDA) PANAMENSIS Clessin.

- Panama: 2 specimens. Berlin collection.

ODOSTOMIA (ODOSTOMIA) FARELLA Dall and Bartsch.

- Off Long Beach, Cal.: 1 specimen, type. Cat. No. 206937, U.S.N.M.

ODOSTOMIA (ODOSTOMIA) DINELLA Dall and Bartsch.

- Near Redondo, Cal.: 1 specimen, type. Cat. No. 206938, U.S.N.M.

ODOSTOMIA (ODOSTOMIA) CORONADOENSIS Dall and Bartsch.

- Off Coronado Beach, San Diego, Cal.: 1 specimen, type. 35 fathoms. Cat. No. 206929, U.S.N.M.
2 specimens, topotypes. Kelsey collection.

ODOSTOMIA (ODOSTOMIA) MAMMILLATA Carpenter.

- Mazatlan, Mexico: 1 specimen. Tablet 1957, Liverpool collection, British Museum.

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[In this index the generic and subgeneric names are written in caps. Wherever two species have the same specific name, the subgenera to which they belong have been placed in parentheses after the specific name. The tables are not indexed.]

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